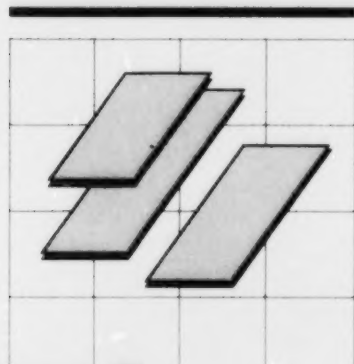




Fire

Commissioner's

Statistical
Report

Alberta

LABOUR

Fire Prevention Branch

1 9 8 9

Alberta Labour

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Introduction

Fire Commissioner's
Statistical Report

1 9 8 9

70th Statistical Report of the Fire Commissioner



Fire Commissioner – T. B. Makey

For the second year in a row, the number of fire deaths has decreased. Although encouraging, the fact that any deaths occur as a result of fires is a very strong indicator that fire prevention needs to continue to be an important part of today's society. The Fire Prevention Branch of Alberta Labour administers a number of programs designed to encourage fire prevention. These programs include public education, fire safety monitoring, advisory services and the collection and dissemination of fire loss data. Through the Alberta Fire Training School (AFTS), located in Vermilion, and field staff located in regional offices, training in all aspects of fire protection, including prevention and suppression, is made available to municipal and industrial fire departments. The Branch also assists with the enforcement of laws related to the suppression of arson. A small, highly skilled group of investigators assist fire and police departments in determining fire cause.

A total of 8,055 fires were recorded for the province in 1989. These fires resulted in 31 fire deaths, 15 deaths involving fire (see glossary), 520 injuries and \$105.7 million in property losses. Compared to 1988, fire incidents decreased by 3.6 per cent and the number of fire deaths decreased by 22.5 per cent. Deaths involving fire showed a decrease of 21.0 per cent and the number of injuries increased by 22.3 per cent. The dollar losses increased by 18 per cent over the previous year.

Homes, representing one and two family dwellings, apartment/tenements and mobile homes, accounted for a total of 2,223 fires which caused 27 fire deaths, 4 deaths involving fire, 313 injuries and \$34.7 million in property losses. Alarming, in 1989, 87 per cent of all fire deaths and 60 per cent of all fire injuries occurred in home fires. There were no smoke alarms in 50 per cent of the homes that had fires last year. However, it is encouraging to note that occupants were alerted in 79 per cent of the home fires where smoke alarms activated.

In mid 1989, a fundamental acquisition by the Branch of an IBM PS/2 computer run in conjunction with SAS (Statistical Analysis System) software resulted in computerization of fire loss data analysis. SAS has enhanced the Branch's efficiency in the dissemination of fire statistics and has enabled the generation of extensive data tabulations in formats desired by fire departments, the media, research institutes, universities and the public. The data in this report was generated using SAS.

A continuing increase in attendance at AFTS is also encouraging. On site municipal course attendance at the school increased by 4.4 per cent, while AFTS sponsored local and extension course attendance increased by 22.8 per cent. A total of 1,992 person weeks of municipal training (14.7 per cent more than 1988-89) was delivered in 1989-90. Attendance at AFTS seminars had a dramatic increase of 395.6 per cent, with 114 participants. However, industrial training decreased slightly (4.8 per cent), from 497 participants to 473.

A total of 1,140 fire investigations were conducted by Branch staff, police and fire departments, which is a decrease of 8 per cent over last year. 377 of these investigations were conducted by Branch staff. Of these 1,140 fires, 839 (74 per cent) were determined to be arson. Although this number is down appreciably from the 1988-89 total (980), the seriousness of this fire cause indicates the need to continue a strong effort to determine accurately the cause of all fires and to expose cases of arson, insurance fraud and other crimes.

Fire Services Advisers were involved in the second year of transition from a primarily inspection/enforcement function to an advisory role that involves presenting seminars, conducting meetings, acquiring up-to-date training for advisers and course instruction.

One hundred and fifty five seminars were offered to municipal administrators and fire department personnel throughout Alberta. Total attendance

was 2,929 (an increase of 165 per cent over the previous year). A total of 1,053 municipal, fire department and industry personnel also attended meetings organized by fire services advisers (an increase of 130 per cent).

Through the Alberta Fire Prevention Council, the interest in and enforcement of fire prevention matters is maintained. The Fire Prevention Council is a quasi-judicial body of 11 individuals appointed by the Lieutenant-Governor-in-Council from a broad range of private sector organizations with fire safety interests. The Council has a responsibility to advise the Minister of Labour on fire prevention matters and to hear appeals on orders issued by Branch Inspectors or by fire department personnel authorized as local assistants to the Fire Commissioner.

As of December 31, 1989 the membership of the Council consisted of:

Harry Dowhan, P.Eng.	- Chairman
Jack Edworthy	- 1st Vice-chairman
Douglas Kometz	- 2nd Vice-chairman
Raymond Caouette	Kent Lee
Ronald Faulkner	Don Murray
Gilles Proulx	Wayne Stanyer
Graeme Leadbeater	Allen Stephanson

A total of 420 Orders were issued in 1989, compared to 244 in 1988 (an increase of 72 per cent). Appeals to these Orders totalled 38 (an increase of 5 per cent over 1988); 12 were withdrawn. Of the 26 appeals the Council dealt with, 7 were revoked, 2 have yet to be heard, 1 was stayed and Council either varied the date of compliance or made variations to the requirements of the 16 remaining Orders appealed.

The Fire Prevention Council was also involved in various other issues. In June, three members of the Council, together with three member of the Building Standards Council, finalized a report on residential sprinklers. The report was forwarded to the Minister of Labour, which was followed up by a presentation on the recommendations contained in the report to the Economic Development Committee at the Legislature Building.

The Council reviewed a document entitled "Principals for a General Safety Statute" and was invited to forward comments to the Assistant Deputy Minister of the General Safety Services Division of Alberta Labour. Council also discussed the contents of a discussion paper on the Uniform General Safety Act with the Assistant Deputy Minister during the December Council meeting.

In addition to the appeal functions of the Fire Prevention Council, the Fire Commissioner has the power to review and vary or revoke orders, if

necessary, and to grant permission for a local assistant to commence a prosecution. In 1989, 60 requests to prosecute for various infractions under the Fire Prevention Act were received. The Fire Commissioner granted permission for all the prosecutions to proceed. Eighteen of these were concluded in court and resulted in a total of \$18,575 in fines. Thirty-two of these prosecutions are still outstanding and 10 were withdrawn by fire departments. An additional 2 court orders were approved and obtained from Court of Queen's Bench.

The Fire Prevention Act and the regulations under the Act form the legal framework for fire prevention, but fire prevention is the responsibility of everyone. Even the smallest fire prevention action by an individual can have a pronounced effect on fire safety in Alberta. Together, we can collectively reduce the incidence of fire. Your efforts in helping to reduce the fire related losses in this province are sincerely appreciated.



Tom Makey

Comparative Statistical Summary

for the three years ending March 31, 1988, 1989 and 1990

	1987-88	1988-89	1989-90
Fire Prevention			
Building fire inspections conducted	2,930	1,902	1,227
Recommendations to correct hazards issued	9,608	3,804	*
Orders issued	23	29	32
Plans examined	237	316	149
Meetings and lectures conducted	1,307	1,003	1,291**
Attendance	3,978	6,347	3,682***

* Generally only follow-up inspections.

** Seminars/Testing included.

*** Does not include meeting attendance as in previous years.

Fire Investigation			
Investigations conducted by Branch	379	359	377
Investigations by other agencies	791	880	763
Total	1,170	1,239	1,140
Causes of Fires Investigated			
Arson	856	980	839
Accidental or unknown	310	252	293
Under investigation	4	7	8
Total	1,170	1,239	1,140

Fire Service Personnel Training

Alberta Fire Training School Municipal Training
Programs (Duration 44 hours)

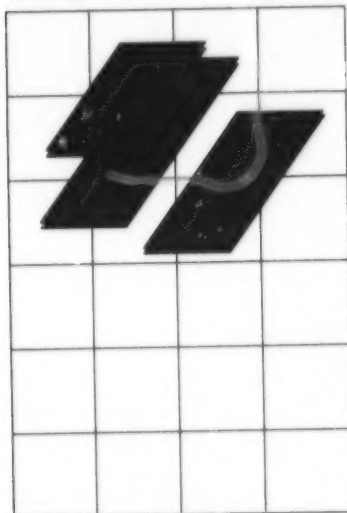
Part I Firefighter	132	81	75
Part II Firefighter	96	64	60
Part III Firefighter	43	42	40
Part IV Firefighter	32	21	38
Part III and IV Practical	-	17**	12
Part V Firefighter	31	30	31
Part VI Firefighter	21	34	30
Part V and VI Practical	-	20**	-
Pump Operator "A"	88	76	63
Pump Operator "B"	21	14	-
Fire Prevention for the Firefighter	15	10	18
Vehicle Extrication and Trench Rescue	20	19	21
Dangerous Goods Incident Control	31*	39	40
Trench Rescue	13*	-	-
Fire Officer C1 Building Construction	12	10	18
Fire Officer C2 Leadership	12	16	16
Fire Officer C3 Pre-emergency Planning	11	7	14
Fire Officer C4 Fire Suppression and Safety	12	6	8
Fire Officer C5 Strategy And Tactics (Theory)	34	37	35
Fire Officer C6 Strategy and Tactics (Practical)	10	13	12
Fire Officer C7 Fire Investigation	20	23	24
Fire Officer C8 Fire Prevention - Fire Protection Equipment	9	7	17
Fire Officer C9 Fire Prevention			
Inspection and Public Education	7	10	20
Fire Officer C10 Human Relations and Management	17*	17	18
Fire Officer C11 Dangerous Goods Incident Command	-	10**	18
Fire Officer C12 Technical Writing Skills	13	14	18
Fire Officer C15 Public Relations and Public Speaking	13	12	15
Fire Inspector DA Building Codes and Standards	24	21	20
Fire Inspector DB Alberta Fire Code	20	19	17
Fire Inspector D1 Water Supply	5	9	11
Fire Inspector D2 Standpipe Sprinkler Systems	14	11	36

Comparative Statistical Summary (cont'd)	1987-88	1988-89	1989-90
Fire Services Instructor E1	31	28	26
Fire Services Instructor E2	19	17	18
Fire Services Instructor E3	10	9	8
Total Municipal Fire Department Personnel (AFTS)	836	763	797
Alberta Fire Training School Extension Courses			
Municipal Presentation (Duration 44 hours)			
Part I Firefighter	287	317	376
Part II Firefighter	102	130	182
Pump Operator "A"	13	69	68
Fire Prevention for the Firefighter	59	69	14
Vehicle Extrication	25*	65	55
Dangerous Goods Incident Control	-	47**	18
Parts III/IV Firefighter (Theory)	-	17**	15
Parts V/VI Firefighter (Theory)	-	20**	-
Fire Officer C1 Building Construction	-	50**	38
Fire Officer C2 Leadership	19	14	21
Fire Officer C3 Pre-emergency Planning	14	38	43
Fire Officer C4 Suppression	-	8**	26
Fire Officer C5 Strategy and Tactics (Theory)	-	33	181
Fire Officer C6 Strategy and Tactics (Practical)	-	-	11
Fire Officer C7 Investigation	72	42	21
Fire Officer C8 Fire Protection Equipment	22	-	-
Fire Officer C9 Fire Prevention	-	-	-
Fire Officer C10 Management	-	39**	26
Fire Officer C12 Technical Writing Skills	12	-	38
Fire Officer C15 Public Relations and Public Speaking	36	-	-
Fire Inspector DA Building Codes & Standards	-	-	17
Fire Inspector DB Alberta Fire Code	-	-	17
Fire Inspector D2 Sprinkler and Standpipe Systems	12	-	-
Fire Services Instructor E1	11	15	5
Fire Services Instructor E2	-	-	23
Personnel Attending AFTS Extension and Local Courses	684	973	1,195
Total Municipal Fire Department Personnel	1,520	1,736	1,992
Industrial Programs (duration as indicated)			
Part I Industrial Firefighter (16h)	100	129	105
Part I-A Industrial Firefighter (8h)	123	108	115
Part I-B Industrial Firefighter (16h)	85	102	60
Part II Industrial Firefighter (16h)	81	84	81
Part III Industrial Firefighter (16h)	75	74	97
Aircraft Crash/Fire Response (Dry Chemical 24h)			15
Total Industrial Fire Department Personnel	464	497	473
Total Attendance AFTS Sponsored Courses	1,984	2,233	2,465
One-day Seminars	84	5	19
Two-day Seminars	-	18	95
Total Seminar Attendance	84	23	114

* These courses were offered for the first time in 1987-88.

**These courses were offered for the first time in 1988-89.

SECTION 1

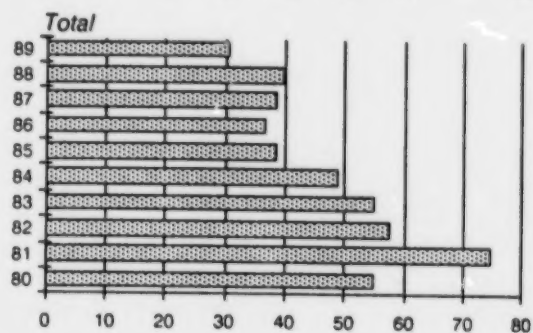
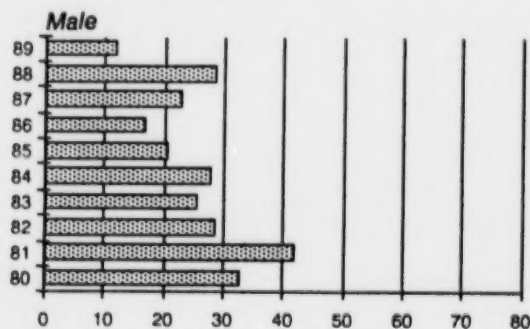
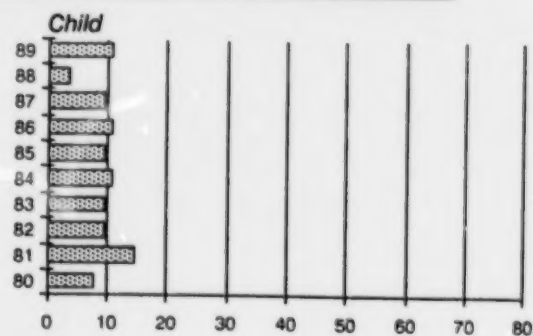
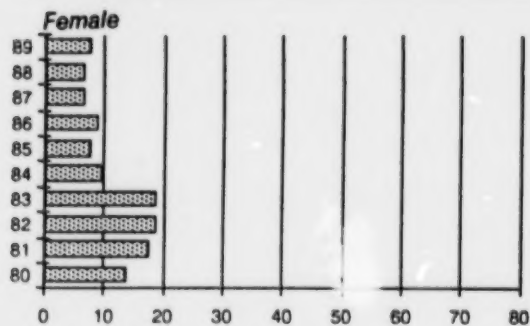


Alberta Fire Casualties

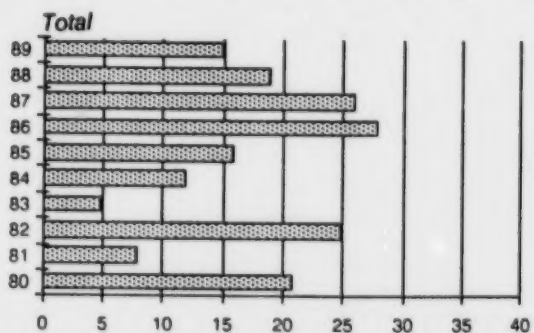
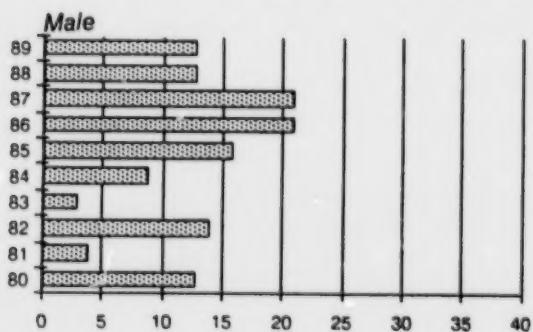
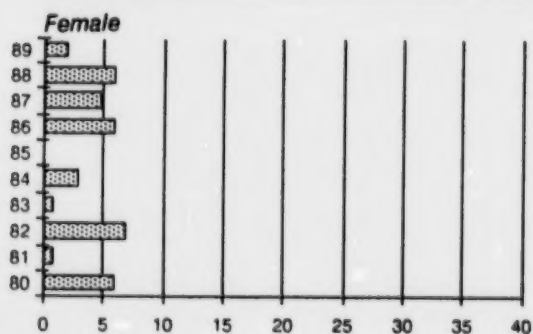
Fire Commissioner's
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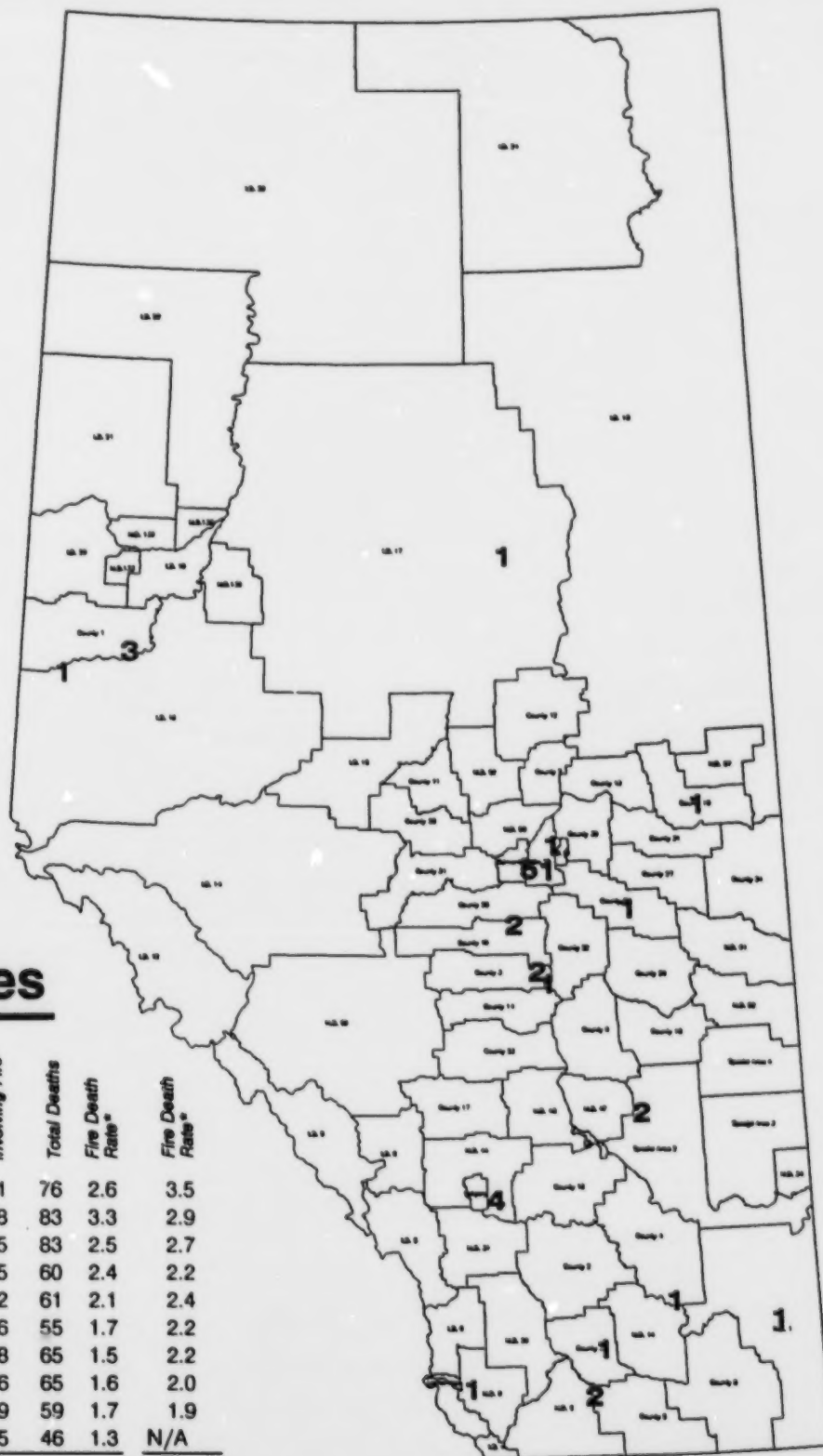
Fire Deaths 1980 - 1989



Deaths Involving Fire 1980 - 1989



Fire Deaths by Geographic Location - 1989



Death Rates

Year	Population	Fire Deaths	Other Deaths Involving Fire	Total Deaths	Fire Death Rate*	Fire Death Rate*
1990	2,146,000	55	21	76	2.6	3.5
1981	2,278,000	75	8	83	3.3	2.9
1982	2,332,000	58	25	83	2.5	2.7
1983	2,336,000	55	5	60	2.4	2.2
1984	2,346,000	49	12	61	2.1	2.4
1985	2,318,000	39	16	55	1.7	2.2
1986	2,399,000	37	28	65	1.5	2.2
1987	2,402,000	39	26	65	1.6	2.0
1988	2,419,000	40	19	59	1.7	1.9
1989	2,449,000	31	15	46	1.3	N/A
Alberta					Canada	

*Deaths per 100,000 population

Casualties by Age & Sex - 1989

Fire Deaths

		Age in Years								
		0-5	6-15	16-25	26-35	36-45	46-55	56-65	OVER 65	TOTAL
Civilian	Female	3	2	1	2	1	0	1	3	13
	Male	5	1	3	4	1	1	2	1	18
Total Deaths		8	3	4	6	2	1	3	4	31

Commentary: No firefighter deaths were reported in 1989. Fire deaths decreased by 22.5% compared to 1988.

Injuries

		Age In Years									
		UNKNOWN	0-5	6-15	16-25	26-35	36-45	46-55	56-65	OVER 65	TOTAL
Firefighter	Female	0	0	0	2	1	1	0	0	0	4
	Male	10	0	0	10	59	43	20	2	0	144
Civilian	Female	5	4	15	20	27	15	12	4	5	107
	Male	33	12	11	56	62	41	23	12	15	265
Total Injuries		48	16	26	88	149	100	55	18	20	520

Commentary: Injuries increased by 22% compared to 1988.

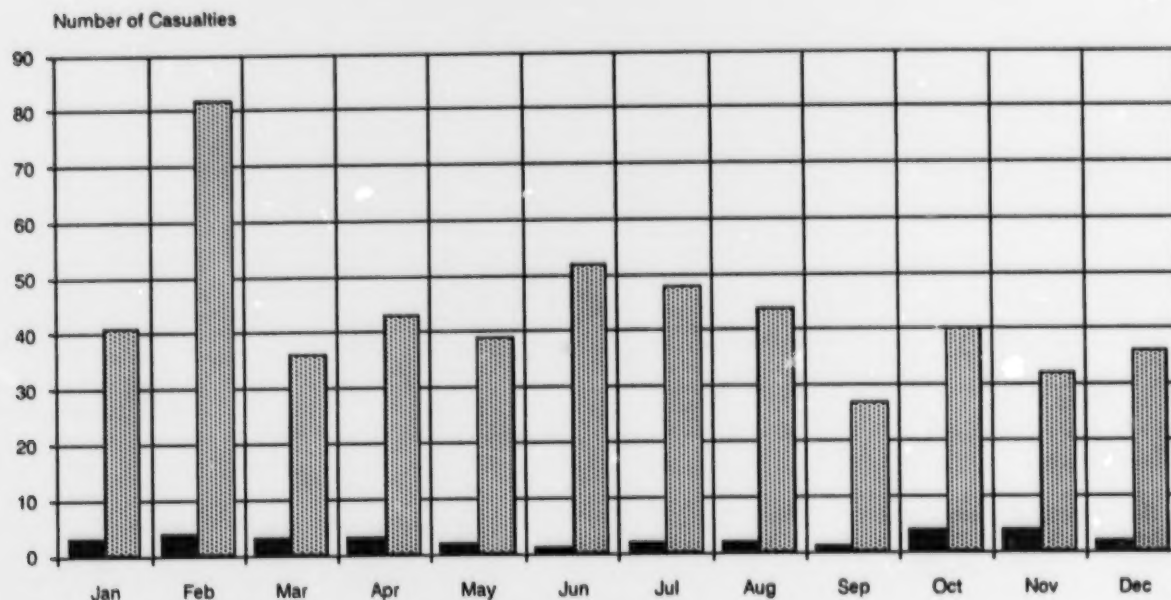
Conditions of Casualties - 1989

Condition of Casualty	Fire Deaths	% Of Total	Injuries	% Of Total
Asleep at time of fire	9	29.0	73	14.0
Bedridden or other physical handicap	2	6.5	1	0.2
Impairment by alcohol, drugs or medication	6	19.4	26	5.0
Awake and no physical or mental impairment at the time of fire	2	6.5	349	67.1
Under restraint or detention	4	12.9	7	1.3
Too young to react to fire emergency	0	0	3	0.6
Mental handicap (senile)	0	0	2	0.4
Left unattended (children)	0	0	21	4.0
Condition of casualty - unclassified or unknown	8	25.8	38	7.3
Total	31	100.0	520	100.0

Commentary: The majority of fatal victims were asleep at the time of fire, while most of the injured victims were awake with no physical or mental impairment. Firefighters account for 41% of the injuries in this category.

Casualties by Month - 1989

Injuries
Fire Deaths



Casualties by Time Period - 1989

Time Period	Fire Deaths	% Of Total	Injuries	% Of Total
6:30 a.m. - 2:29 p.m.	15	48.4	167	32.1
2:30 p.m. - 10:29 p.m.	6	19.4	212	40.8
10:30 p.m. - 6:29 a.m.	10	32.3	134	25.8
Unknown	0	0	7	1.3
Total	31	100.0	520	100.0

Commentary: Most fire deaths occurred between 6:30 a.m. and 2:29 p.m.; most injuries occurred between 2:30 p.m. and 10:29 p.m.

Fire Deaths by Major Property Classifications - 1989

Property Classification	Fire Deaths		Deaths Involving Fire		
	No. Of	% Of	No. Of	% Of	
Residential	One and Two Family Dwellings	19	61.3	4	26.7
	Apartment, Tenement	3	9.7	0	0
	Hotel	1	3.2	0	0
	Mobile Home, Trailer	5	16.1	0	0
	Sub Total	28	90.3	4	26.7
Special Property - Transportation Equipment	Outdoor Property	2	6.5	0	0
	Ground Transport Vehicle	1	3.2	9	60.0
	Sub Total	3	9.7	9	60.0
Miscellaneous Property	Miscellaneous Outbuildings	0	0	1	6.7
	Mining, Quarrying	0	0	1	6.7
	Sub Total	0	0	2	13.4
Total	31	100.0	15	100.0	

Commentary: 90% of fire deaths occurred in residential properties.

Injuries by Major Property Classifications - 1989

Property Classification	Minor Injury	Light Injury	Serious Injury	Total	% Of Total	
Assembly	Amusement, Recreation Place	4	1	0	5	1.0
	School, College, University	16	4	0	20	3.8
	Food or Beverage Establishment	1	1	0	2	0.4
	Sub Total	21	6	0	27	5.2
Institutional	Home for the Aged	0	0	1	1	0.2
	Hospital, Sanatorium, Clinic	4	2	0	6	1.2
	Sub Total	4	2	1	7	1.4
Residential	One and Two Family Dwellings	91	38	20	149	28.7
	Apartment, Tenement	96	41	8	145	27.9
	Rooming, Boarding House	1	1	2	4	0.8
	Hotel	7	1	0	8	1.5
	Motor Hotel	1	0	0	1	0.2
	Mobile Home, Trailer	18	9	8	35	6.7
	Sub Total	214	90	38	342	65.8
	Business and Personal Service	Office	1	0	0	1
Sub Total		1	0	0	1	0.2
Mercantile	Food, Beverage Sale	1	0	0	1	0.2
	Books, Newspapers, Drugs, Specialties	2	0	0	2	0.4
	Repair Shop, Laundry, Dry Cleaner	2	1	0	3	0.6
	Motor Vehicles, Boats, Sales & Service	9	3	2	14	2.7
	Sub Total	14	4	2	20	4.0

(CONTINUED)

Injuries by Major Property Classifications - 1989 (cont'd)

Property Classification	Minor Injury	Light Injury	Serious Injury	Total	% Of Total
Industrial Manufacturing Properties					
Chemicals, Petroleum, Paints, Plastics	0	3	2	5	1.0
Wood, Furniture, Paper, Printing	3	0	0	3	0.6
Metal/(Products), Elect. Equip. & Appl.	7	2	1	10	1.9
Sub Total	10	5	3	18	3.5
Storage Properties					
Flammable Liq., Gases, Petro. Products	1	0	1	2	0.4
Vehicle	10	6	1	17	3.3
Miscellaneous	5	2	0	7	1.3
Sub Total	16	8	2	26	5.0
Special Properties - Transportation Equipment					
Outdoor Property	9	13	3	25	4.8
Under Construction/ Demolition: Vacant	3	1	1	5	1.0
Ground Transport Vehicle	13	9	8	30	5.8
Aircraft	0	0	1	1	0.2
Special Vehicles	3	0	0	3	0.6
Sub Total	28	23	13	64	12.4
Miscellaneous Property					
Miscellaneous	2	0	3	5	1.0
Farm Facilities	3	0	1	4	0.8
Miscellaneous Outbuildings	1	0	0	1	0.2
Utility	0	2	0	2	0.4
Mining, Quarrying	1	1	1	3	0.6
Sub Total	7	3	5	15	3.0
Total	315	141	64	520	100.0

Commentary: 66% of injuries occurred in residential properties.

Fire Deaths by Act or Omission - 1989

Act or Omission	Fire Deaths		Deaths Involving Fire	
	No. Of	% Of	No. Of	% Of
Incendary	Arson: to Cover Crime	0	.	1 6.7
	Arson/Set Fire: Unclassif.	0	.	2 13.3
	Sub Total	0	.	3 20.0
Misuse of Source of Ignition	Smoker's Material	7	22.6	0 .
	Inadequate Control:Open Fire	1	3.2	0 .
	Child Playing With Source	5	16.1	0 .
	Sub Total	13	42.0	0 .
Misuse of Material Ignited	Over Heated Cooking Oil/Wax	1	3.2	0 .
	Combustible:Placed Too Close	2	6.5	0 .
	Sub Total	3	9.7	0 .
Mechanical, Electrical Failure, Malfunction	Mech./Elec. Failure/Malfun- c.:Unknown	1	3.2	0 .
	Automatic Control Failure	0	.	1 6.7
	Sub Total	1	3.2	1 6.7
Misuse of Equipment	Overfueling	0	.	1 6.7
	Sub Total	0	.	1 6.7
Human Failing	Human Failing:Unknown	0	.	1 6.7
	Suspect Use Of Alcohol/Drugs/- Medicn.	2	6.5	1 6.7
	Asleep +Suspect Alcohol/Drugs/- Medicn.	2	6.5	0 .
	Ignorance of Hazard	1	3.2	0 .
	Sub Total	5	16.1	2 13.3
Vehicle Accident	Ind. Truck Accident	0	.	3 20.0
	Other Road Veh./Accident	0	.	4 26.7
	Sub Total	0	.	7 46.6
Miscellaneous	Act/Omission: Unknown	9	29.0	1 6.7
	Sub Total	9	29.0	1 6.7
	Total	31	100.0	15 100.0

Commentary: Misuse of smoker's material was the leading cause of fatal fires, followed by child playing with the source of ignition.

Injuries by Act or Omission - 1989

Act or Omission

Incendiary

	Minor Injury	Light Injury	Serious Injury	Total	% Of Total
Arson: for Vengeance	14	3	0	17	3.3
Suspected Arson	2	2	0	4	0.8
Arson/Set Fire-Reason Unknown	12	4	1	17	3.3
Vandalism/Mischief-Charged	2	0	0	2	0.4
Vandalism/Mischief-no charge	4	0	0	4	0.8
Arson/Set Fire: Unclassif.	1	0	0	1	0.2
Sub Total	35	9	1	45	8.6

Misuse of Source of Ignition

Smoker's Material	34	24	7	65	12.5
Thawing	1	0	0	1	0.2
Inadequate Control:Open Fire	2	4	0	6	1.2
Child Playing With Source	19	8	11	38	7.3
Welding/Cutting Too Close	6	3	1	10	1.9
Torch Too Close To	1	0	0	1	0.2
Misuse of Source of Ign.:Unclassif.	1	2	0	3	0.6
Sub Total	64	41	19	124	23.8

Misuse of Material Ignited

Accidental Fuel Spill	5	0	1	6	1.2
Improper Fueling	7	2	1	10	1.9
Flammable Liquid to Kindle Fire	1	3	1	5	1.0
Cleaning/Washing Parts	5	2	5	12	2.3
Improper Container	1	0	0	1	0.2
Over Heated Cooking Oil/Wax	32	13	3	48	9.2
Combustible:Placed Too Close	6	1	0	7	1.3

(CONTINUED)

Injuries by Act or Omission - 1989 (cont'd)

Act or Omission	Minor Injury	Light Injury	Serious Injury	Total	% Of Total	
Misuse of Material Ignited (cont'd)	Improper Storage	6	2	2	10	1.9
	Sub Total	63	23	13	99	19.0
Mechanical, Electrical Failure, Malfunction	Mech./Elec. Failure/Mal-func.:Unknown	3	2	0	5	1.0
	Mechanical Part Failure/Break/Leak	15	7	4	26	5.0
	Electric Short Circuit	16	10	2	28	5.4
	Mech./Elec. Failure/Mal-func.:unclass.	3	3	0	6	1.2
	Automatic Control Failure	0	2	0	2	0.4
	Sub Total	37	24	6	67	12.9
	Constr./Design-/Instn. Defic.:Unknown	1	0	0	1	0.2
Construction, Design or Installation Deficiency	Installed To Close Too Combustible	2	0	0	2	0.4
	Other Installation Deficiency	1	0	0	1	0.2
	Faulty Connections: Copper Wire	0	1	0	1	0.2
	Sub Total	4	1	0	5	1.0
	Misuse of Equipment	Misuse of Eqpt.:Unclass.	1	1	1	3
Human Failing	Sub Total	1	1	1	3	0.6
	Human Failing:Unknown	5	0	1	6	1.2
	Asleep	4	1	1	6	1.2
	Loss of Judgement/Panic	1	0	0	1	0.2
	Disability-Physical/Mental	4	2	0	6	1.2
	Accident	5	3	0	8	1.5
	Suspect Use of Alcohol/Drugs/Medicine	2	2	1	5	1.0

(CONTINUED)

Injuries by Act or Omission - 1989 (cont'd)

Act or Omission	Minor Injury	Light Injury	Serious Injury	Total	% Of Total
Human Failing (cont'd)					
Asleep +Suspect: Alcohol/Drugs/ Medicine	16	4	0	20	3.8
Ignorance of Hazard	26	8	9	43	8.3
Distracted/Pre- occupied	9	9	0	18	3.5
Sub Total	72	29	12	113	21.7
Vehicle Accident					
Automobile Accident	1	0	4	5	1.0
Ind. Truck Accident	0	0	1	1	0.2
Aircraft Accident	0	0	1	1	0.2
Sub Total	1	0	6	7	1.4
Miscellaneous					
Act/Omission:- Unclassif.	4	2	2	8	1.5
Act/Omission: Unknown	34	11	4	49	9.4
Sub Total	38	13	6	57	10.9
Total	315	141	64	520	100.0

Commentary: Misuse of smoker's material was the leading cause of fires where injuries occurred, followed by overheated cooking oil.

SECTION 2

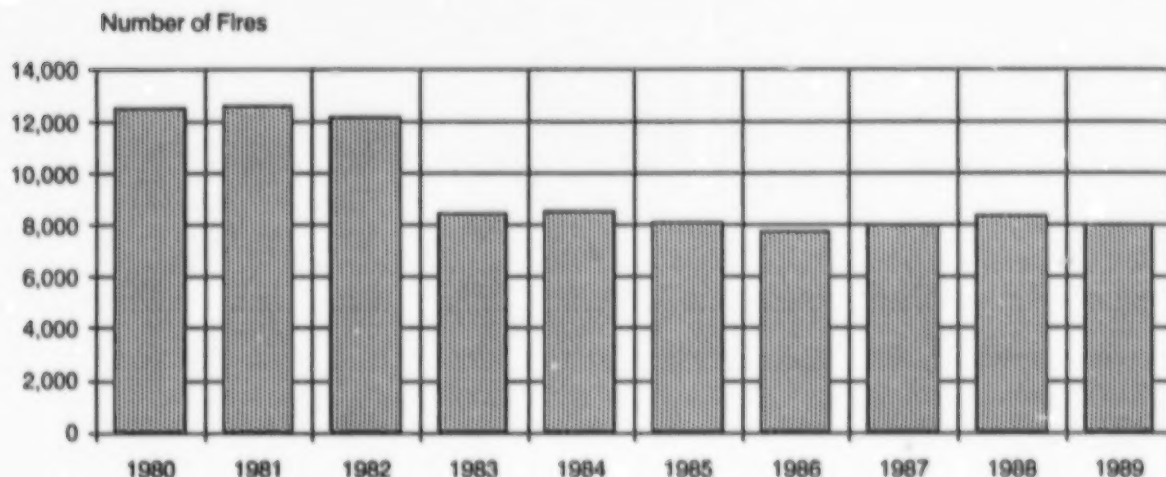


Alberta Fire Loss Information

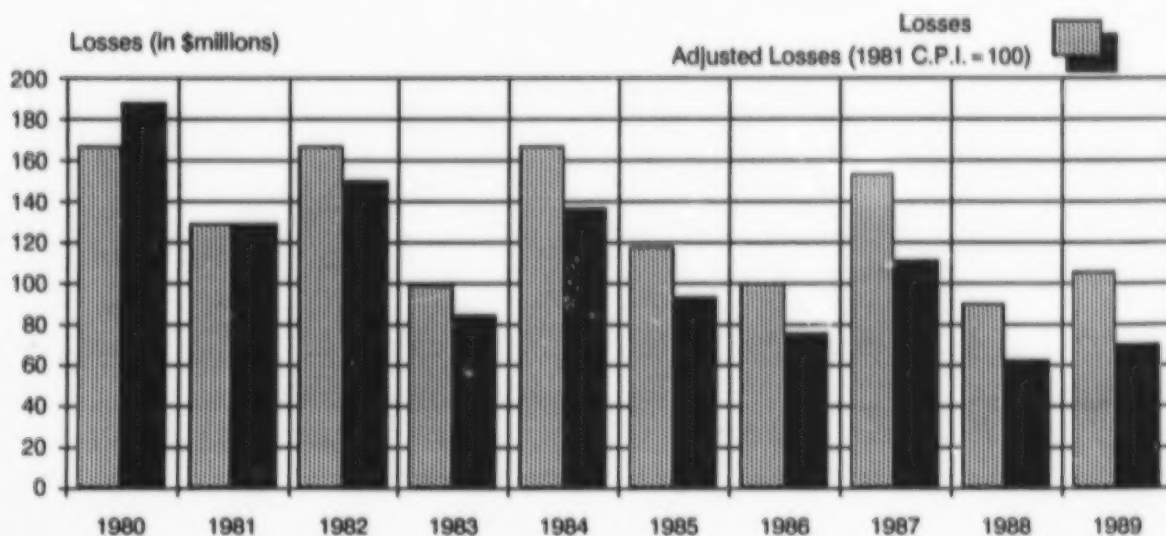
Fire Commissioner's
Statistical Report

1 9 8 9

Fires and Losses 1980 - 1989



Commentary: Although the fires have dropped substantially from 1980 to 1989, approximately 50% of the drop is due to the new reporting procedure implemented in 1983. The change was that grass and garbage fires are now only included as a fire when they extend to other property causing a dollar loss.

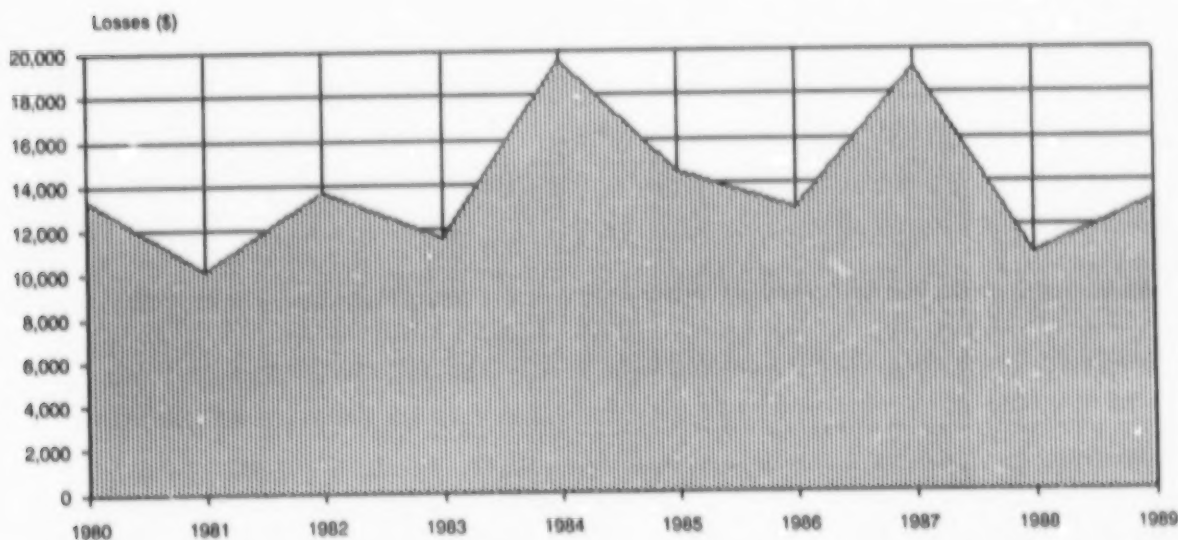


Commentary: Losses have decreased by 36.8% between 1980 and 1989 and adjusted losses by 62.7%.

Fire Rates and Per Capita Losses 1980 - 1989

Years	Population*	Number Of Fires	Fire Rate**	Loss Estimate	Loss Per Capita
1980	2,180,000	12,563	0.8	167,349,505	76.77
1981	2,267,000	12,659	0.6	128,600,498	56.73
1982	2,345,000	12,191	0.2	166,471,410	70.99
1983	2,366,000	8,482	0.6	98,720,370	41.72
1984	2,358,000	8,549	0.6	167,449,997	71.01
1985	2,338,000	8,151	0.5	117,924,685	50.44
1986	2,372,000	7,777	0.3	99,677,307	42.02
1987	2,380,000	8,018	0.4	153,928,878	64.68
1988	2,397,000	8,346	0.5	89,501,318	37.34
1989	2,415,000	8,055	0.3	105,701,522	43.77

Average Loss Per Fire 1980 - 1989

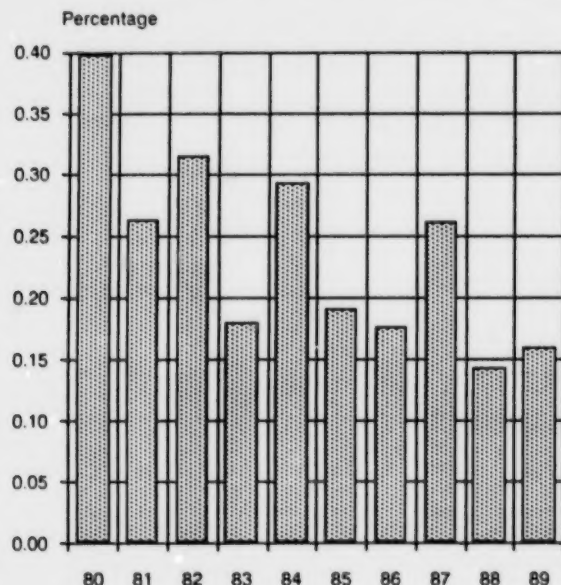


Commentary: The average loss per fire decreased by 1.5% from 1980 to 1989.

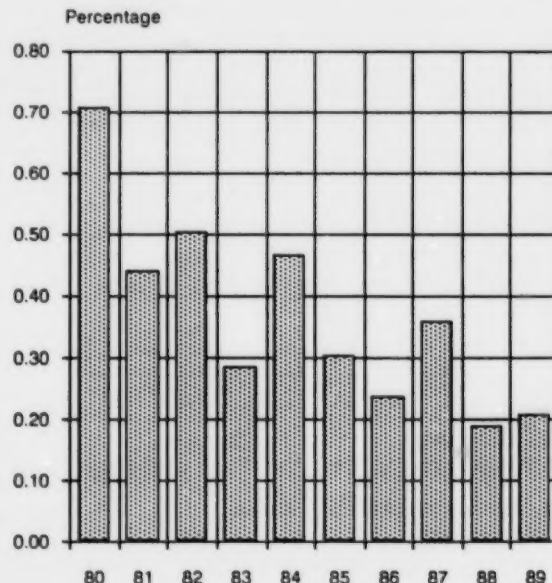
Fire Losses Related to Economic Indices 1980 - 1989

Years	Fire Losses (in Millions)	Gross Domestic Product (in \$ Millions)	% Of Gross Domestic Product	Personal Income (in \$ Millions)	% Of Personal Income
1980	167.3	42,021	0.40	23,658	0.71
1981	128.6	49,037	0.26	29,170	0.44
1982	166.5	52,838	0.32	33,054	0.50
1983	98.7	54,812	0.18	34,442	0.29
1984	167.4	57,458	0.29	35,840	0.47
1985	117.9	62,009	0.19	38,762	0.30
1986	99.7	56,439	0.18	42,366	0.24
1987	153.9	58,940	0.26	42,753	0.36
1988	89.5	62,801	0.14	47,859	0.19
1989	105.7	66,706	0.16	51,067	0.21

**Fire Losses As A Percentage
of Gross Domestic Product**

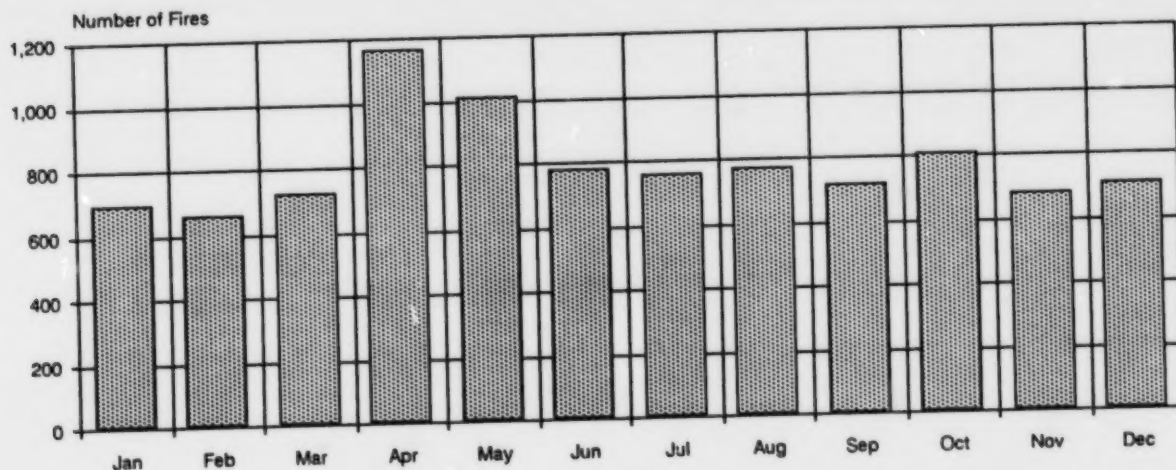


**Fire Losses As A
Percentage of Personal Income**

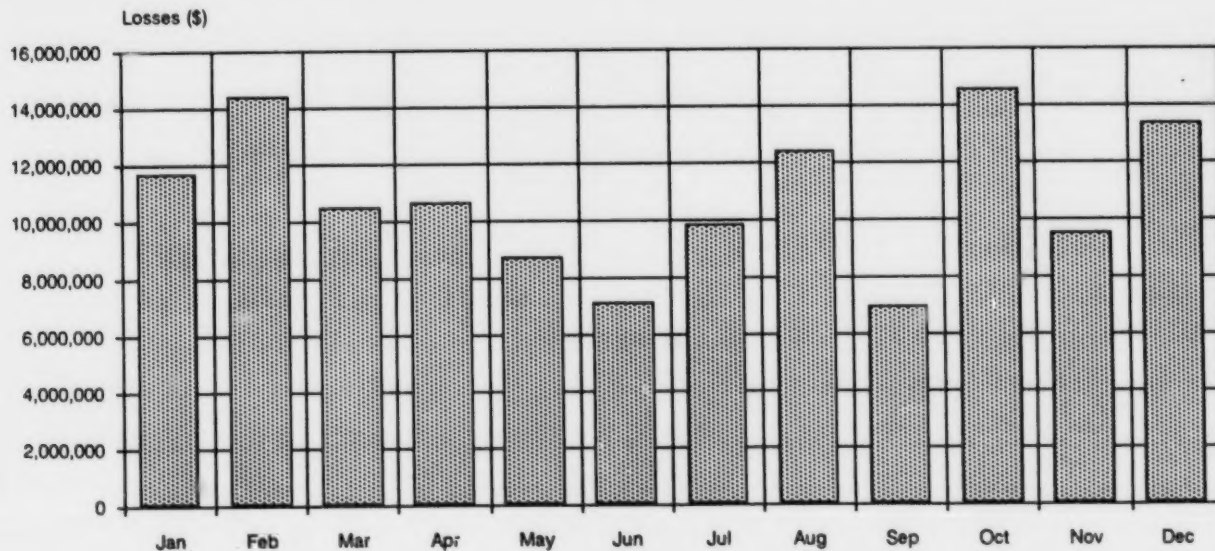


Commentary: As a percentage of gross domestic product, fire losses have decreased 60% between 1980 and 1989. As a percentage of personal income, fire losses decreased 70% during the same time period.

Average Number of Fires by Month 1980 - 1989

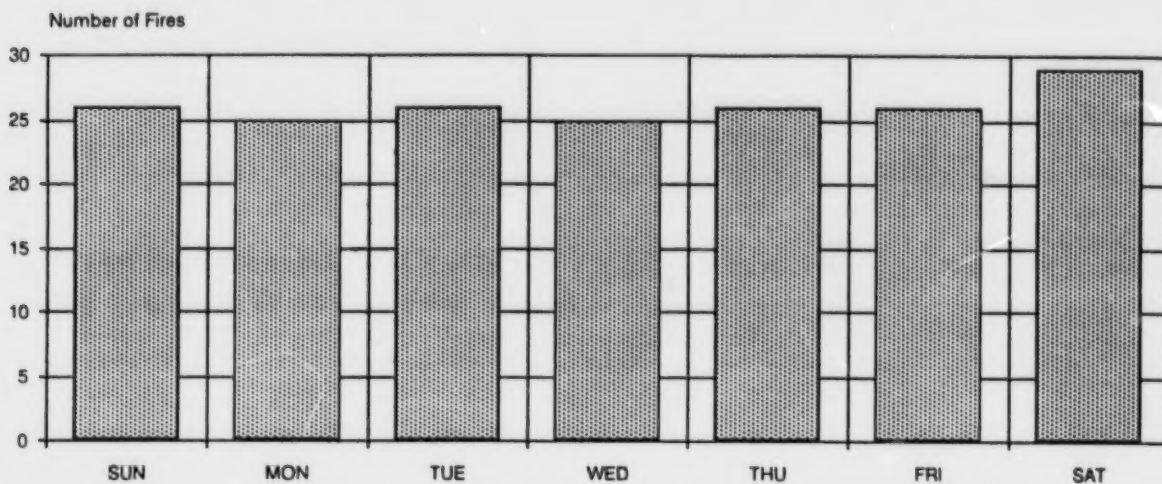


Average Fire Loss by Month 1980 - 1989

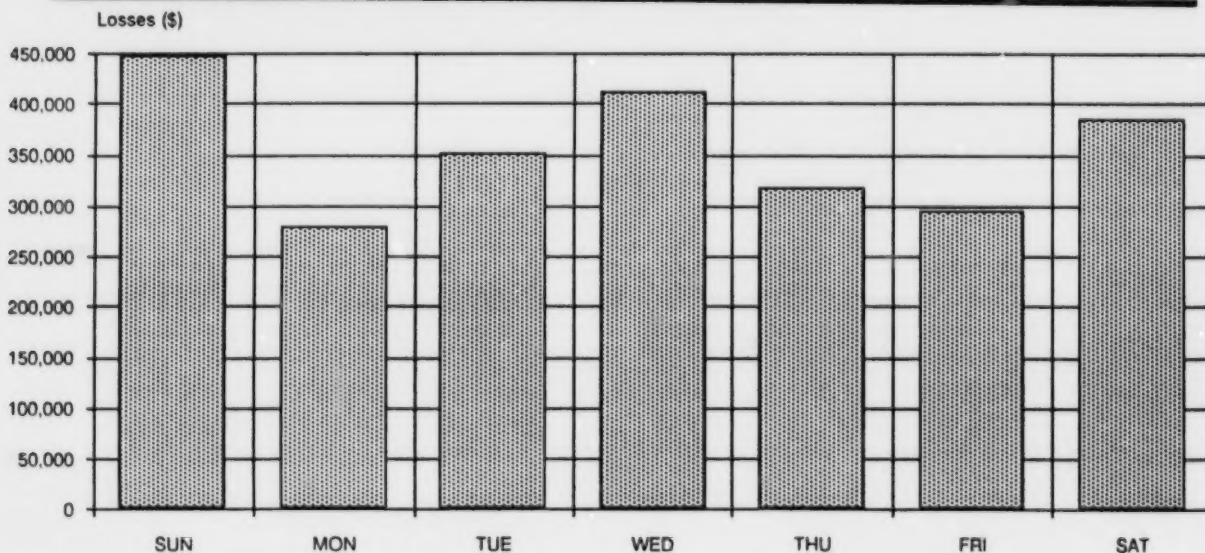


Commentary: While the average number of fires was greatest in the months of April and May, average losses were highest in October and then February. The highest average loss per fire per month (\$21,916) was in February.

Average Number of Fires by Day of Week 1980 - 1989

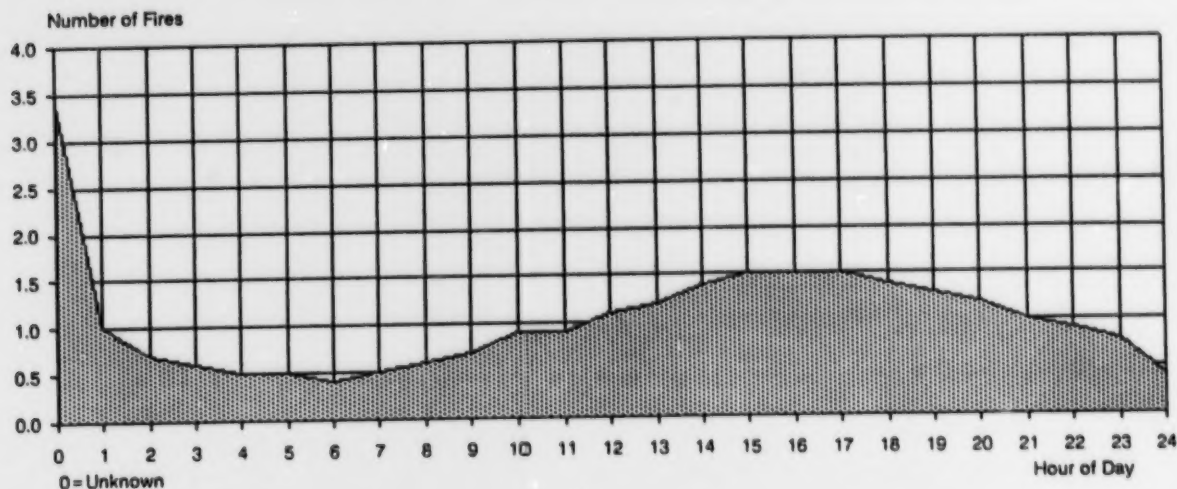


Average Fire Loss by Day of Week 1980 - 1989

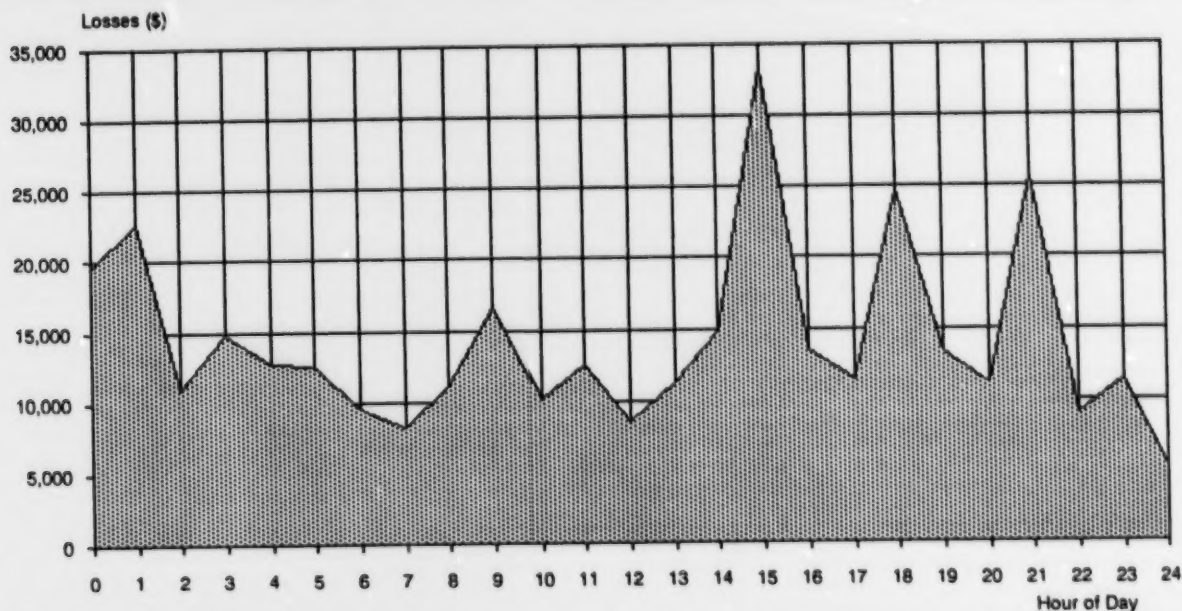


Commentary: From 1980 to 1989, the highest average number of fires on any day of the week occurred on Saturday. Sunday had higher losses than others, with Monday having the lowest losses.

Average Number of Fires by Hour of Day 1980 - 1989



Average Fire Loss by Hour of Day 1980 - 1989



Commentary: While the greatest number of fires occurred between the hours of 1500 (3:00 p.m.) and 1700 (5:00 p.m.), the greatest losses generally occurred at 1500 (3:00 p.m.) and 2100 (9:00 p.m.).

Fires by Loss Category - 1989

	Fires	% Fires	Losses	% Losses
\$1 - 99	1200	14.9	30,006	0.0
\$100 - 999	2321	28.8	962,929	0.9
\$1,000 - 9,999	3044	37.8	9,735,523	9.2
\$10,000 - 49,999	1047	13.0	22,577,404	21.4
\$50,000 - 249,999	393	4.9	38,984,775	36.9
\$250,000 - 499,999	31	0.4	9,941,680	9.4
\$500,000 and over	19	0.2	23,469,205	22.2
Total	8055	100.0	105,701,522	100.0

1989 Large Loss Fires (\$500,000 and over)

Property Class	Date	Location	Occupancy	Act or Omission	Losses	Deaths	Injuries
Assembly	Feb.7	M.D. #44	Rec/Sports Facility	Unknown	1,070,000	0	4
	Aug.3	Red Deer	Jr. High School	Misuse of Source of Ignition	800,000	0	1
	Sept.22	Irvine	Jr. High School	Incendiary	5,506,392	0	5
Residential	Feb.21	Calgary	Apartment	Smoker's Material	1,401,966	0	20
	Nov.18	Bow Island	Hotel	Unknown	750,000	0	4
Mercantile	Oct.22	Cty. #26	Confectionary Store	Incendiary	500,000	0	0
	May 10	Pincher Creek	Department Store	Automatic Failure	1,096,625	0	0
	Feb.19	Edmonton	Leather Fur Sales	Incendiary	896,525	0	2
	May 9	Bonnyville	Farm Equip. Store	Incendiary	861,220	0	0
	Nov.23	Fairview	Vehicle Sales	Unknown	782,847	0	5
Industrial Manufacturing	Apr.14	Cty. #17	Alfalfa Plant	Unknown	866,908	0	0
	Jul.7	Cty. #16	Feed Mill	Welding	500,000	0	0
Storage	Nov.28	Cty. #17	Grain Elevator	Incendiary	1,915,000	0	0
Special	Nov.19	Medicine Hat	Unoccupied Warehouse	Smoker's Material	750,000	0	2
	Nov.27	M.D. #1	Unoccupied Barracks	Unknown	2,835,000	0	0
Miscellaneous	Feb.1	I.D. #14	Dairy Barn	Mech. Malfunction	527,722	0	0
	Aug.24	Brooks	Industrial Storage	Incendiary	900,000	0	0
	Aug.12	I.D. #19	Oil Gas Well	Ignorance of Hazard	509,000	0	1
	Dec.16	I.D. #18	Oil Gas Well	Part Failure	1,000,000	0	0

Fires by Major Property Classifications - 1989

Property Classification

Assembly

	No. Of Fires	% Of Total	Losses	% Of Total
Theatre, Studio, Auditorium	1	0.0	800	0.0
Amusement, Recreation Place	28	0.3	1,234,388	1.2
School, College, University	53	0.7	7,425,972	7.0
Church, Funeral Parlour	11	0.1	118,354	0.1
Clubs, Social, Sport	8	0.1	148,108	0.1
Food or Beverage Establishment	77	1.0	1,815,890	1.7
Passenger Terminal, Station	1	0.0	10	0.0
Sub Total	179	2.2	10,743,522	10.2

Institutional

Prison, Jail, Reformatory	4	0.0	161,700	0.2
Home for the Aged	7	0.1	8,200	0.0
Child Care	4	0.0	83,780	0.1
Hospital, Sanatorium, Clinic	20	0.2	144,451	0.1
Sub Total	35	0.4	398,131	0.4

Residential

One and Two Family Dwellings	1476	18.3	24,908,663	23.6
Apartment, Tenement	560	7.0	5,819,835	5.5
Rooming, Boarding House	11	0.1	39,793	0.0
Hotel	48	0.6	2,499,018	2.4
Motor Hotel	15	0.2	350,354	0.3
Dormitory	25	0.3	590,435	0.6
Mobile Home, Trailer	323	4.0	4,833,575	4.6
Miscellaneous	7	0.1	42,154	0.0
Sub Total	2465	30.6	39,083,827	37.0

(CONTINUED)

Fires by Major Property Classifications - 1989 (cont'd)

Property Classification

Business and Personal Service

	No. Of Fires	% Of Total	Losses	% Of Total
Miscellaneous	4	0.0	226,587	0.2
Office	33	0.4	378,067	0.4
Personal Service	4	0.0	4,161	0.0
Electronic Equipment	2	0.0	4,700	0.0
Sub Total	43	0.5	613,515	0.6

Mercantile

Miscellaneous	9	0.1	217,099	0.2
Food, Beverage Sale	26	0.3	623,042	0.6
Textile, Wearing Apparel Sale	7	0.1	1,247,076	1.2
Furniture, Appliance, Hardware Sales	5	0.1	484,502	0.5
Books, Newspapers, Drugs, Specialties	13	0.2	1,291,022	1.2
Recreation, Hobby Supplies	4	0.0	71,604	0.1
Repair Shop, Laundry, Dry Cleaner	11	0.1	47,731	0.0
Motor Vehicles, Boats, Sales & Service	41	0.5	2,849,644	2.7
Department, Variety Store	13	0.2	297,194	0.3
Sub Total	129	1.6	7,128,914	6.7

Industrial Manufacturing Properties

Miscellaneous	4	0.0	100,322	0.1
Chemicals, Petroleum, Paints, Plastics	30	0.4	1,131,079	1.1
Wood, Furniture, Paper, Printing	40	0.5	1,226,966	1.2
Metal/(Product- s), Elect. Equip. & Appl.	54	0.7	2,154,535	2.0
Food Processing	21	0.3	1,842,237	1.7

(CONTINUED)

Fires by Major Property Classifications - 1989 (cont'd)

Property Classification

Industrial Manufacturing Properties (cont'd)

	No. Of Fires	% Of Total	Losses	% Of Total
Beverage, Tobacco, Soap, Margarine	1	0.0	500	0.0
Textiles	1	0.0	50	0.0
Wearing Apparel, Footwear	2	0.0	302,190	0.3
Vehicles and Related Equipment	3	0.0	3,101	0.0
Sub Total	156	2.0	6,760,980	6.4

Storage Properties

Miscellaneous	32	0.4	2,052,514	1.9
Agricultural Products	31	0.4	2,552,384	2.4
Textiles, Fibres, Clothing	4	0.0	3,250	0.0
Processed Food, Beverage	3	0.0	224,502	0.2
Flammable Liq., Gases, Petro. Products	17	0.2	525,384	0.5
Wood, Furniture, Paper and Products	30	0.4	596,942	0.6
Chemicals, Plastics, Paints	2	0.0	4,050	0.0
Metal Products, Machinery, Elect. Appl.	12	0.1	62,334	0.1
Vehicle	286	3.6	3,253,999	3.1
Sub Total	417	5.2	9,275,359	8.8

Special Property - Transportation Equipment

Outdoor Property	955	11.9	149,145	0.1
Special Connecting Thoroughfares	2	0.0	9,000	0.0
Under Construction/Demolition: Vacant	157	1.9	5,490,688	5.2
Watercraft	9	0.1	244,645	0.2

(CONTINUED)

Fires by Major Property Classifications - 1989 (cont'd)

Property Classification

Special Property - Transportation Equipment (cont'd)

	No. Of Fires	% Of Total	Losses	% Of Total
Rail Transport Vehicle and Equipment	23	0.3	371,235	0.4
Ground Transport Vehicle	2527	31.4	9,879,572	9.3
Aircraft	2	0.0	55,001	0.1
Special Vehicles	297	3.7	4,910,197	4.6
Sub Total	3972	49.3	21,109,483	20.0
Miscellaneous Property				
Miscellaneous	36	0.4	44,206	0.0
Laboratories	1	0.0	100	0.0
Farm Facilities	283	3.5	5,653,383	5.3
Miscellaneous Outbuildings	218	2.7	921,171	0.9
Utility	89	1.1	949,032	0.9
Cement, Glass, Pottery Manufacturing	4	0.0	492,368	0.5
Mining, Quarrying	24	0.3	2,522,781	2.4
Communications	4	0.0	4,750	0.0
Sub Total	659	8.2	10,587,791	10.0
Total	8055	100.0	105,701,522	100.0

Commentary: While the number of fires was greatest in the 'special' classification (notably vehicles) with 49%, losses were greatest in the residential properties with 37%.

Property Losses Related to Area of Origin - 1989

Property Classification	Means of Egress		Assembly Area		Function Area		Storage Area	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	15	33,523	10	296,757	63	1,483,222	9	5,661,724
Institutional	1	200	4	85,000	19	73,702	3	33,186
Residential	82	284,830	264	4,731,440	1261	16,019,955	95	2,552,119
Business	7	182,186	1	500	12	27,027	7	227,091
Mercantile	7	157,261	12	1,311,659	18	304,015	17	1,486,069
Manufacturing	0	0	1	100	41	2,023,115	14	913,380
Storage	3	5,028	0	0	11	765,933	158	3,939,801
Special	8	192,265	9	32,660	20	104,842	16	776,063
Miscellaneous	1	44,805	0	0	41	2,162,672	87	1,197,277
Total	124	900,098	301	6,458,116	1486	22,964,483	406	16,786,710

Property Classification	Service Facilities		Service and Equipment Area		Structural Area		Vehicle Area	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	6	22,199	18	1,143,019	50	1,752,997	0	0
Institutional	1	500	1	37,462	4	30,051	1	135,000
Residential	50	615,508	114	2,676,270	326	6,640,566	29	253,260
Business	0	0	5	143,573	10	20,873	0	0
Mercantile	3	2,600	25	908,646	26	2,504,009	3	173,015
Manufacturing	7	204,151	53	2,761,459	25	425,968	5	112,153
Storage	1	1	15	481,409	140	1,193,900	28	270,356
Special	1	650	4	231,200	75	354,172	2855	15,269,455
Miscellaneous	5	333,192	41	2,075,701	231	1,498,658	30	338,595
Total	74	1,178,801	276	10,458,739	887	14,421,194	2951	16,551,834

Property Losses Related to Area of Origin - 1989 (cont'd)

Property Classification	Unknown		Outside Area		Total	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	TOTAL
Assembly	4	349,271	4	810	179	10,743,522
Institutional	1	3,030	0	0	35	398,131
Residential	200	4,825,215	44	484,664	2,465	39,083,827
Business	1	12,265	0	0	43	613,515
Mercantile	8	107,214	10	174,426	129	7,128,914
Manufacturing	3	246,339	7	74,315	156	6,760,980
Storage	9	2,032,541	52	586,390	417	9,275,359
Special	25	3,969,264	959	178,912	3,972	21,109,483
Miscellaneous	47	2,154,569	176	782,322	659	10,587,791
Total	298	13,699,708	1252	2,281,839	8,055	105,701,522

Commentary: For all types of occupancies, fires starting in storage areas caused an average of \$41,346 loss. The next highest average loss, \$37,894 occurred when fires started in service and equipment areas.

Property Losses Related to Act or Omission - 1989

Property Classification	Incendiary Fires		Misuse of Source		Misuse of Material		Mechanical, Electrical Failure	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	60	7,521,386	27	1,326,059	22	188,845	32	445,970
Institutional	13	38,162	6	3,252	0	0	6	68,987
Residential	196	3,257,509	460	7,731,911	490	5,147,642	406	5,992,738
Business	17	180,483	6	228,920	2	76,737	11	110,499
Mercantile	35	2,947,258	13	32,424	11	450,900	38	1,995,629
Manufacturing	7	310,771	20	728,139	18	597,718	50	1,872,382
Storage	93	3,064,799	79	816,216	46	1,079,073	80	1,911,025
Special	470	2,006,430	591	1,711,046	109	493,321	1732	6,943,678
Miscellaneous	68	1,111,005	214	1,257,654	31	314,548	114	3,301,022
Total	959	20,437,803	1416	13,835,621	729	8,348,784	2469	22,641,730

Property Classification	Design Deficiency		Misuse of Equipment		Human Failing		Vehicle Accident	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	9	17,925	1	1	17	13,212	0	0
Institutional	0	0	0	0	6	64,700	0	0
Residential	73	1,420,898	8	292,992	537	4,578,311	0	0
Business	1	200	0	0	5	11,676	0	0
Mercantile	4	28,551	0	0	10	149,076	2	51
Manufacturing	9	108,127	3	102,000	14	293,751	0	0
Storage	10	141,134	2	12,732	31	309,233	2	22,250
Special	34	95,370	12	33,592	124	726,159	77	762,849
Miscellaneous	14	37,548	2	22,965	18	908,805	3	20,763
Total	154	1,849,753	28	464,282	762	7,054,923	84	805,913

Property Losses Related to Act or Omission - 1989 (cont'd)

Property Classification	Unknown		Miscellaneous		Total	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	9	1,189,304	2	40,820	179	10,743,522
Institutional	3	88,030	1	135,000	35	398,131
Residential	248	10,010,612	47	651,214	2,465	39,083,827
Business	1	5,000	0	0	43	613,515
Mercantile	15	1,524,525	1	500	129	7,128,914
Manufacturing	28	2,542,740	7	205,352	156	6,760,980
Storage	61	1,013,792	13	905,105	417	9,275,359
Special	745	7,523,861	78	813,377	3,972	21,109,483
Miscellaneous	160	3,466,797	35	146,684	659	10,587,791
Total	1270	27,364,661	184	2,898,052	8,055	105,701,522

Commentary: Mechanical and electrical failures caused 31% of all fires and 21% of the losses. Misuse of source of ignition caused 18% of all fires and 13% of all property losses. The average loss of an incendiary fire was \$21,311.

Property Losses Related to Source of Ignition - 1989

Property Classification	Cooking Equipment		Heating Equipment		Appliances and Equipment		Electrical Distribution Equipment	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	36	242,584	13	37,817	13	105,545	14	308,718
Institutional	4	3,775	0	0	4	67,962	0	0
Residential	732	5,689,308	278	5,417,956	190	2,331,592	117	2,341,065
Business	2	3,875	5	72,569	1	3,500	3	33,734
Mercantile	10	1,221,360	11	298,103	7	18,425	20	476,584
Manufacturing	6	189,700	22	975,717	4	141,247	13	197,075
Storage	8	447,830	50	820,527	14	248,686	30	836,061
Special	60	12,959	42	466,092	49	166,620	945	3,473,250
Miscellaneous	2	20,294	40	662,013	8	214,813	55	823,634
Total	860	7,831,685	461	8,750,794	290	3,298,390	1197	8,490,121

Property Classification	Other Electrical Equipment		Smoker's Material and "Open" Flames		Exposure		Miscellaneous	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	6	11,350	73	8,303,453	5	23,102	2	7,203
Institutional	2	2,750	20	41,614	0	0	1	135,000
Residential	54	561,697	633	9,656,933	183	1,651,334	28	290,356
Business	6	8,552	18	308,258	1	5,685	2	76,882
Mercantile	7	358,000	28	1,647,145	15	1,170,293	5	147,800
Manufacturing	15	542,034	23	1,026,627	9	138,770	39	994,982
Storage	15	711,834	83	1,234,268	117	1,029,758	26	317,188
Special	14	67,730	734	2,160,531	370	1,099,085	737	3,514,626
Miscellaneous	34	1,383,711	79	1,567,369	281	1,087,448	42	701,665
Total	153	3,647,658	1691	25,946,198	981	6,205,475	882	6,185,702

Property Losses Related to Source of Ignition - 1989 (cont'd)

Property Classification	Unknown		No Igniting Object		Total	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	15	1,662,930	2	40,820	179	10,743,522
Institutional	4	147,030	0	0	35	398,131
Residential	233	10,638,301	17	505,285	2465	39,083,827
Business	5	100,460	0	0	43	613,515
Mercantile	24	1,785,704	2	5,500	129	7,128,914
Manufacturing	25	2,554,828	0	0	156	6,760,980
Storage	66	3,145,605	8	483,602	417	9,275,359
Special	1002	9,993,972	19	154,618	3972	21,109,483
Miscellaneous	110	4,098,013	8	28,831	659	10,587,791
Total	1484	34,126,843	56	1,218,656	8055	105,701,522

Commentary: Smoker's material and open flames were the sources of ignition for 21 per cent of the fires and 25 per cent of the losses. Where a source of ignition was identified, the highest average loss of \$23,840 was in fires where the source was other electrical equipment. Electrical distribution equipment accounted for the highest average loss of \$20,009 in residential properties.

Property Losses Related to Fuel or Energy - 1989

Property Classification	Coal or Wood, etc.		Natural Gas or Other Fuel Gas		Fuel Oil		Gasoline	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	3	1,251	48	1,271,030	0	0	0	0
Institutional	1	135,000	3	37,513	0	0	0	0
Residential	159	2,768,836	225	3,296,968	19	282,272	16	197,375
Business	0	0	7	77,893	0	0	0	0
Mercantile	3	2,627	24	403,828	1	1	0	0
Manufacturing	7	55,970	34	1,866,987	3	315,549	1	941
Storage	25	251,369	42	770,671	2	28,000	15	260,433
Special	25	211,436	143	723,654	58	1,013,173	595	1,814,558
Miscellaneous	17	154,564	29	899,406	5	53,090	19	29,278
Total	240	3,581,053	555	9,347,950	88	1,692,085	646	2,302,585

Property Classification	Smoker's Material		Electricity		Lightning		Exposure	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	53	7,281,375	45	442,815	2	40,820	6	28,602
Institutional	15	39,663	10	38,525	0	0	0	0
Residential	527	8,628,037	993	10,302,209	10	242,654	185	1,674,542
Business	15	304,858	11	46,161	0	0	1	5,685
Mercantile	18	1,546,708	37	2,053,848	0	0	15	1,170,293
Manufacturing	4	217,058	43	1,089,800	0	0	9	138,770
Storage	61	893,069	67	2,278,384	6	453,502	116	1,029,258
Special	638	1,444,191	1021	3,714,834	3	25,659	372	1,098,085
Miscellaneous	61	1,238,420	104	2,618,023	8	29,830	280	1,085,748
Total	1392	21,593,379	2331	22,584,599	29	792,465	984	6,230,983

Property Losses Related to Fuel or Energy - 1989 (cont'd)

Property Classification	Unknown		Unclassified		Total	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	16	1,674,930	6	2,699	179	10,743,522
Institutional	4	147,030	2	400	35	398,131
Residential	259	10,885,615	72	805,319	2465	39,083,827
Business	6	101,036	3	77,882	43	613,515
Mercantile	27	1,801,109	4	150,500	129	7,128,914
Manufacturing	36	2,794,229	19	281,676	156	6,760,980
Storage	69	3,140,259	14	170,414	417	9,275,359
Special	1020	10,187,678	97	876,215	3972	21,109,483
Miscellaneous	115	4,111,275	21	368,157	659	10,587,791
Total	1552	34,843,161	238	2,733,262	8055	105,701,522

Commentary: Electricity was the most commonly identified fuel or energy resulting in 29 per cent of the fires. The average loss in a fire started by lightning was \$27,326.

Property Losses Related to Material First Ignited - 1989

Property Classification	Structural Components		Furniture, Furnishings		Clothing, Textiles		Wood, Paper Products	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	36	2,411,062	4	20,100	8	455,429	36	6,404,096
Institutional	6	67,763	6	7,851	9	34,810	3	135,201
Residential	318	5,041,494	389	6,317,352	120	1,810,526	180	2,385,623
Business	4	67,921	0	0	0	0	11	246,746
Mercantile	21	1,214,661	2	1,200,663	2	850	15	17,517
Manufacturing	19	343,900	2	37,000	4	60,928	27	719,099
Storage	123	1,799,427	9	51,520	8	99,272	50	316,890
Special	84	642,477	73	137,723	47	111,507	165	226,146
Miscellaneous	235	1,983,966	6	47,618	6	20,490	63	291,981
Total	846	13,572,671	491	7,819,827	204	2,593,812	550	10,743,299

Property Classification	Flammable & Combustible Liquids		Flammable Gases		Chemicals		Agricultural Products	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	38	384,927	3	21,917	3	7,100	4	8,211
Institutional	2	2,500	0	0	2	1,300	1	1,500
Residential	607	6,970,726	70	1,120,632	68	769,076	40	148,704
Business	6	148,763	1	3,155	5	6,085	2	4,000
Mercantile	21	1,498,274	7	277,100	3	720	1	500
Manufacturing	32	1,594,634	11	562,057	6	228,891	8	25,745
Storage	70	1,719,813	18	311,612	4	8,326	13	61,957
Special	967	3,788,423	99	276,150	50	398,821	329	1,433,235
Miscellaneous	33	1,443,675	20	798,942	5	230,051	126	842,989
Total	1776	17,551,735	229	3,371,565	146	1,650,370	524	2,526,841

Property Losses Related to Material First Ignited - 1989 (cont'd)

Property Classification	Unknown		Miscellaneous		Total	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	12	849,478	35	181,202	179	10,743,522
Institutional	3	142,030	3	5,176	35	398,131
Residential	368	11,326,278	305	3,193,416	2465	39,083,827
Business	4	14,302	10	122,543	43	613,515
Mercantile	30	2,515,321	27	403,308	129	7,128,914
Manufacturing	25	2,790,157	22	398,569	156	6,760,980
Storage	70	4,350,405	52	556,137	417	9,275,359
Special	957	11,700,061	1201	2,394,940	3972	21,109,483
Miscellaneous	101	4,044,125	64	883,954	659	10,587,791
Total	1570	37,732,157	1719	8,139,245	8055	105,701,522

Commentary: When identified, the materials most commonly first ignited were flammable and combustible liquids (22%). These fires resulted in 17% of the losses.

Property Losses Related to Initial Detection - 1989

Property Classification	Smoke Alarm/ Detector Device		Heat Alarm/ Detector Device		Automatic Systems		Visual Sighting	
	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	4	106,131	2	800	3	161,029	169	10,472,842
Institutional	13	99,112	2	375	1	1,100	19	297,544
Residential	248	3,071,262	7	613,689	21	27,867	2183	35,343,122
Business	1	220	0	0	1	2,700	41	610,595
Mercantile	2	3,200	1	14,000	5	161,162	121	6,950,552
Manufacturing	1	12,000	1	800	11	127,392	142	6,620,763
Storage	0	0	0	0	0	0	416	9,274,859
Special	0	0	1	1,000	0	0	3969	21,107,979
Miscellaneous	0	0	0	0	0	0	659	10,587,791
Total	269	3,291,925	14	630,664	42	481,250	7719	101,266,047

Property Classification	Unclassified or Unknown		Total	
	No. Of Fires	Losses	No. Of Fires	Losses
Assembly	1	2,720	179	10,743,522
Institutional	0	0	35	398,131
Residential	6	27,887	2,465	39,083,827
Business	0	0	43	613,515
Mercantile	0	0	129	7,128,914
Manufacturing	1	25	156	6,760,980
Storage	1	500	417	9,275,359
Special	2	504	3,972	21,109,483
Miscellaneous	0	0	659	10,587,791
Total	11	31,636	8,055	105,701,522

Commentary: The average loss of a fire in residential properties was \$15,190 where the initial detection was visual sighting, and \$12,384 where the initial detection was by smoke alarm/detector.

Fires by Method of Fire Control and Extinguishment - 1989

Method of Fire Control and Extinguishment	No. Of Fires	% Of Total	Losses	% Of Fire
Hand Fire Extinguisher				
Water pump tank	232	2.9	772,194	0.7
Water pressurized	68	0.8	1,193,850	1.1
Water soda-acid	2	0.0	1,300	0.0
Foam	10	0.1	473,870	0.4
Vapourizing liquid/Halon	8	0.1	14,101	0.0
CO2	34	0.4	87,985	0.1
Dry chemical	433	5.4	1,570,247	1.5
Multi-purpose dry chemical	58	0.7	133,079	0.1
Hand fire extinguisher - unclassified	46	0.6	243,347	0.2
Sub Total	891	11.1	4,489,973	4.2
Standpipe System				
Sm. hose/38 mm nom. straight stm. noz.	17	0.2	103,238	0.1
Sm. hose/38 mm nom. comb. noz.	150	1.9	961,828	0.9
Lge. hose/65 mm nom. straight stm. noz.	4	0.0	73,186	0.1
Lge. hose/65 mm nom. comb. noz.	4	0.0	186,000	0.2
Cont. flow/<38 mm nom. straig. stm. noz.	6	0.1	2,201	0.0
Cont. flow/<38 mm nom. comb. noz.	2	0.0	13,000	0.0
Standpipe system - unclassified	1	0.0	50	0.0
Sub Total	184	2.3	1,339,503	1.3
"Makeshift" Fire Fighting Aid				
Garden hose	128	1.6	235,348	0.2
Water bucket	110	1.4	112,068	0.1
Small water container	155	1.9	262,440	0.2
Sand bucket	2	0.0	16,200	0.0
Dry chemical and scoop	6	0.1	11,616	0.0
Baking soda	20	0.2	58,497	0.1

(CONTINUED)

Fires by Method of Fire Control and Extinguishment - 1989 (cont'd)

Method of Fire Control and Extinguishment	No. Of Fire	% Of Fire	Losses	% Of Fire
"Makeshift" Fire Fighting Aid (cont'd)				
Smothered by covering	111	1.4	217,367	0.2
Snow	84	1.0	91,902	0.1
'Makeshift' fire fighting aid - unclass.	63	0.8	81,017	0.1
Sub Total	679	8.4	1,086,455	1.0
Fire Department - Water				
Booster hose, 25 mm or less	244	3.0	385,489	0.4
38 mm hose, 1 hoseline	1685	20.9	8,342,655	7.9
38 mm hose, 2 or more	865	10.7	19,366,249	18.3
65 mm hose, 1 hoseline	36	0.4	907,755	0.9
65 mm hose, 2 or more	52	0.6	8,342,941	7.9
77 mm or larger hose, 1 or more	10	0.1	377,065	0.4
Comb. of 38 mm, 65 mm, 77 mm or larger	503	6.2	31,326,265	29.6
Portable water deluge set	4	0.0	76,606	0.1
Fire Department water - unclassified	125	1.6	1,328,239	1.3
Sub Total	3524	43.7	70,453,264	66.7
Fire Department - Other Than Water				
Crash-fire foam veh., using handlines	1	0.0	136,000	0.1
Pumper, foam hand. only, via eductor	30	0.4	768,227	0.7
Vehicle, comb., foam-dry chemical	1	0.0	10,000	0.0
Vehicle, dry chemical, under 450 kg	3	0.0	4,600	0.0
Vehicle, dry chemical, 450 kg & over	1	0.0	9,040	0.0
Fire dept. - other than water-unclass.	11	0.1	596,482	0.6
Sub Total	47	0.6	1,524,349	1.4

(CONTINUED)

Fires by Method of Fire Control and Extinguishment - 1989 (cont'd)

Method of Fire Control and Extinguishment	No. Of Fires	% Of Total	Losses	% Of Total
Sprinkler System				
Wet pipe sys., alarm conn. to fire dept.	13	0.2	36,787	0.0
Wet pipe sys., local alarm only	8	0.1	46,610	0.0
Dry pipe sys., alarm conn. to fire dept.	2	0.0	502	0.0
Dry pipe sys., local alarm only	1	0.0	1,001	0.0
Pre-action sys., local alarm only	1	0.0	1	0.0
Sprinkler System - unclassified	1	0.0	3,300	0.0
Sub Total	26	0.3	88,201	0.1
Fixed System Other Than Sprinklers				
Dry chemical system	4	0.0	3,163	0.0
Halon system	1	0.0	200	0.0
Foam-water system	1	0.0	500	0.0
Water spray system	4	0.0	31,452	0.0
Sub Total	10	0.1	35,315	0.0
Burned Out				
Burned out before fire dept. arrival	197	2.4	878,699	0.8
Incapable of controlling	16	0.2	2,523,675	2.4
Burned out - unclassified	108	1.3	1,187,296	1.1
Sub Total	321	4.0	4,589,670	4.3
Miscellaneous				
Miscellaneous - cannot be determined	2286	28.4	22,012,074	20.8
Miscellaneous - unclassified	87	1.1	82,718	0.1
Sub Total	2373	29.5	22,094,792	20.9
TOTAL	8055	100.0	105,701,522	100.0

Commentary: Where identified, 11% and 8% of fires were extinguished by hand fire extinguishers and makeshift firefighting aids, respectively.

Home Fire Losses in Alberta - 1989

Type	Incidents	Deaths	Injuries	\$ Loss
1 & 2 Family Dwellings	1476	23	149	24,908,663
Mobile Home	560	3	143	5,819,835
Apartment, Tenement	187	5	19	4,008,504
Total	2223	31	313	34,737,002

Commentary: 28% of all fires occurred in homes. These fires accounted for 33% of all dollar losses, 87% of all deaths (fire deaths + deaths involving fire), and 60% of all fire injuries. Of the 31 deaths in homes, 28 (90%) were fire deaths.

Home Fires by Major Areas of Fire Origin - 1989

Area of Origin	% Of Incidents	% Of Deaths	% Of Injuries	% Of \$ Loss
Kitchen	33	13	37	23
Structural Area	13	3	4	15
Living Room	11	45	19	13
Bedroom	10	19	14	11
Laundry Area	5	0	4	3
Heating Equipment Room	4	10	7	6
Chimney	2	0	0	1
Unknown	8	10	1	13
Other	13	0	14	13
Total	100	100	100	100

Commentary: Most home fires (33%) started in kitchens. These fires account for the highest percentage of injuries (37%) and dollar losses (23%). Most fatal home fires (45%) started in living rooms.

Home Fires by Major Sources of Ignition - 1989

Area of Origin	Source of Ignition	Percent Of All Areas Of Origin			
		Incidents	Deaths	Injuries	\$ Loss
Kitchen	Stove or range, top burner area	73	25	57	50
	Smoker's material*	42	50	41	31
Living Room	Match, lighter not used with smoking	12	21	26	16
	Fireplace	11	0	2	2
Structural Area	Exposure fires	25	0	54	16
	Electrical: wiring, distribution	20	0	31	21
	Fireplace	7	0	0	15
Bedroom	Smoker's material	31	33	46	16
	Match, lighter not used with smoking	25	0	25	21
	Electric light bulb/lamp	9	0	5	6
Laundry Area	Clothes dryer	63	0	18	32
Heating Equip. Area	Central heating unit	43	33	36	45
	Service water heater	24	0	33	23
Chimney	Fireplace	59	0	0	57
	Heating equipment	31	0	100	15

* Interpreted as follows: Stove or range, top burner area was the source of ignition in 73 per cent of fires which originated in kitchens. The remaining 27 per cent of kitchen fires were ignited by other sources of ignition.

* Smoker's material: Includes cigarettes, pipe, cigar and/or matches, lighter used in conjunction with smoking.

Home Fires by Major Ignition Scenarios - 1989

Area and Source of Ignition	Material First Ignited	Act or Omission	Percent Of All Fires In Area Of Origin And Source Of Ignition			
			Incidents	Deaths	Injuries	\$ Loss
Kitchen: Stove or range top burner area: Fire in pan	Cooking oil	Overheated oil	* 61	100	35	53
	Fire in deep-fat fryer/pot	Cooking oil	74	0	79	78
Structural Areas: Exposure fire from detached structure Electrical: wiring and dist. equip. Fireplace	Exterior wall	Several	76	0	29	75
	Insulation	Electric short circuit	44	0	75	32
	Wall structure	Installation deficiency	40	0	0	36
Living Room: Smoker's material Match, lighter not used with smoking Fireplace	Upholstered furniture	** Smoker's material	66	71	54	66
	Upholstered furniture	Child playing with	35	33	63	53
	Carpet, rug	Human falling	61	0	0	31
Bedroom: Smoker's material Match, lighter not used with smoking	Mattress, bedding	Smoker's material	46	50	33	52
		Asleep	8	0	10	1
		Impaired	25	0	33	12
	Mattress, bedding	Child playing with	58	0	73	40
Laundry area: Clothes dryer	Clothing, fabric, lint/fibre	Ignorance of hazard	18	0	0	15
		Mechanical, electrical failure, malfunction	18	0	0	7
Heating equip. room: Central heating unit	Flammable/combustible liq./gas	Mechanical, electrical failure, malfunction	14	0	25	15
		Ignorance of hazard	5	100	38	22
		Other	17	0	25	36
	Other	Mechanical, electrical failure, malfunction	26	0	0	4
	Service water heater	Other	39	0	86	66
Service water heater	Flammable/combustible liq./gas	Other	39	0	86	66
	Plastics, paper, clothing, wood	Combustibles placed too close	17	0	0	12

Home Fires by Major Ignition Scenarios - 1989 (cont'd)

Area and Source of Ignition	Material first ignited	Act or Omission	Percent Of All Fires In Area Of Origin And Source Of Ignition			
			Incidents	Deaths	Injuries	\$ Loss
Chimney: fireplace	Creosote	Ignorance of hazard	57	0	0	1
		Over fuelling	13	0	0	74
Heating equip./space heater	Creosote	Ignorance of hazard	75	0	0	54
Other: Smoker's material	Upholstered furniture	Smoker's material	32	56	21	27
	Mattress/bedding	Smoker's material	16	11	12	12
Match, lighter not used with smoking	Other	Arson/set fire	30	0	16	27
	Other	Child playing with	21	0	12	32

* Interpreted as follows: 81 per cent of all fires in the kitchen - stove or range burner area were from the ignition of cooking oil in pans, as a result of overheating.

** Misuse of smoker's material.

Home Fires by Smoke Alarm Operation - 1989

Smoke alarm installation

- Not installed

- Installed

Total

Fires	% Of Total	Deaths	% Of Total	Injuries	% Of Total	\$ Loss	% Of Total
1110	50	21	68	82	26	18,852,669	54.3
1113	50	10	32	231	74	15,884,333	45.7
2223	100	31	100	313	100	34,737,002	100.0

Activation of installed alarms

- Activated

- Not activated

- Unknown

Total

540	50	3	30	145	63	9,200,185	57.9
422	38	3	30	49	21	2,870,908	18.1
131	12	4	40	37	16	3,813,240	24.0
1113	100	10	100	231	100	15,884,333	100.0

Alarm assistance to occupants

- Assisted occupants to evacuate

- Did not assist occupants

Total

307	55	2	67	83	57	3,917,147	42.6
253	45	1	33	62	43	5,265,036	57.4
560	100	3	100	145	100	9,200,185	100.0

Alarm did not assist occupant evacuation - reasons

- Alarm inaudible

- Unable to respond

- Under the influence of alcohol/drugs

- Unsuitable location

- Unknown

- Unnecessary to evacuate

- Other

Total

2	1	0	0	0	0	10,190	0.2
1	0	0	0	1	2	35,000	0.7
4	2	0	0	30	48	1,403,318	26.6
1	0	0	0	0	0	2,000	0.0
14	6	0	0	1	2	202,153	3.8
138	53	1	100	15	24	361,575	6.8
93	37	0	0	15	24	3,268,802	61.9
253	100	1	100	62	100	5,265,036	100.0

Alarms not activated - reasons

- Unsuitable location

- No battery

- Dead battery

- Electricity off

- Electricity not connected

- Mechanical failure

- Not enough smoke

- Unknown

- Other

Total

14	3	0	0	0	0	39,965	1.4
105	25	2	67	14	29	1,087,807	37.9
31	7	0	0	2	4	185,511	6.5
14	3	0	0	8	16	123,976	4.3
24	6	0	0	12	24	173,300	6.0
7	2	0	0	0	0	19,618	0.7
155	36	0	0	6	12	382,168	13.2
41	10	1	33	5	10	779,678	27.2
31	7	0	0	2	4	78,885	2.7
422	100	3	100	49	100	2,870,908	100.0

Commentary: Smoke alarms were not installed in 50% of the homes that had fires in 1989. Alarms did not activate in 38% of the fires in homes with smoke alarms. No power source and inadequate smoke were the two primary reasons for lack of alarm activation. Occupants were alerted in 79% of home fires where smoke alarms activated.

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
County 1	Grande Prairie Cty #1	12,042	111	940,624	9.2	78.11	1104	12,758,202	9.2	105.95
	Beaverlodge	1,808	1	18,000	0.6	9.96	43	675,388	2.4	37.36
	Hythe	688	2	27,354	2.9	39.76	25	545,388	3.6	79.27
	Sexsmith	1,256	8	28,722	6.4	22.87	45	698,936	3.6	55.65
	Wembley	1,264	2	3,059	1.6	2.42	33	295,927	2.6	23.41
	Total	17,058	124	1,017,759	7.3	59.66	1250	14,973,841	7.3	87.78
County 2	Vulcan Cty #2	3,656	8	34,035	2.2	9.31	160	3,228,901	4.4	88.32
	Vulcan	1,422	7	16,432	4.9	11.56	33	132,776	2.3	9.34
	Arrowwood	140	.	.	.	.	2	82,798	1.4	59.14
	Carmangay	262	.	.	.	.	10	40,625	3.8	15.51
	Champion	358	.	.	.	.	9	57,201	2.5	15.98
	Lomond	177	.	.	.	.	6	106,976	3.4	60.44
	Hilo	114	.	.	.	.	4	5,283	3.5	4.63
	Total	6,129	15	50,467	2.4	8.23	224	3,654,560	3.7	59.62
County 3	Ponoka Cty #3	7,739	57	512,400	7.4	66.21	520	4,687,982	6.7	60.58
	Ponoka	5,473	9	148,475	1.6	27.13	135	2,945,900	2.5	53.83
	Rimbey	1,748	7	597,910	4.0	342.05	63	945,949	3.6	54.12
	Parkland Beach S.V.	48	1	450	20.8	9.38	1	450	2.1	0.94
	Total	15,008	74	1,259,235	4.9	83.90	719	8,580,281	4.8	57.17
County 4	Newell Cty #4	6,143	39	765,014	6.3	124.53	396	47,886,368	6.4	779.53
	Brooks	9,464	19	1,016,591	2.0	107.42	204	4,901,377	2.2	51.79
	Bassano	1,186	.	.	.	.	31	164,855	2.6	13.90
	Duchess	430	1	8,300	2.3	19.30	7	91,863	1.6	21.36
	Rosemary	321	.	.	.	.	3	6,875	0.9	2.14
	Tilley	362	1	25	2.8	0.07	8	238,235	2.2	65.81
	Total	17,906	60	1,789,930	3.4	99.96	649	53,289,573	3.6	297.61
County 5	Warner Cty #5	3,579	18	208,527	5.0	58.26	175	1,969,899	4.9	55.04
	Warner	490	.	.	.	.	12	95,492	2.4	19.49
	Milk River	861	.	.	.	.	15	182,567	1.7	21.20
	Raymond	2,957	4	134,870	1.4	45.61	59	604,985	2.0	20.46

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave.	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
County 5	Coutts	359	.	.	.	.	14	667,132	3.9	185.83
	Stirling	796	2	85,478	2.5	107.38	20	224,118	2.5	28.16
	Total	9,042	24	428,875	2.6	47.43	295	3,744,193	3.3	41.41
County 6	Stettler Cty #6	5,179	16	185,515	3.1	35.82	323	3,675,021	6.2	70.96
	Stettler	5,147	13	106,535	2.5	20.70	157	6,416,144	3.1	124.66
	Big Valley	295	1	48,835	3.4	165.54	12	132,563	4.1	44.94
	Botha	180	.	.	.	.	4	2,851	2.2	1.58
	Donalds	237	.	.	.	.	8	80,901	3.4	34.14
	Gadsby	35	3	152	85.7	4.34	5	45,153	14.3	129.01
	Rochon Sands S.V.	37	.	.	.	.	2	12,576	5.4	33.99
	Total	11,110	33	341,037	3.0	30.70	511	10,365,209	4.6	93.30
County 7	Thorhild Cty #7	3,094	17	166,456	5.5	53.80	187	3,038,886	6.0	98.22
	Thorhild	481	2	1,370	4.2	2.85	19	42,562	4.0	8.85
	Radway	200	.	.	.	.	3	5,930	1.5	2.96
	Total	3,730	19	167,826	5.1	45.00	209	3,087,378	5.6	82.77
County 8	Forty Mile Cty #8	3,335	13	121,470	3.9	36.42	195	2,339,943	5.8	70.16
	Foremost	595	1	1,336	1.7	2.25	22	99,128	3.7	16.66
	Bow Island	1,566	11	764,774	7.0	488.36	59	1,474,993	3.8	94.19
	Burdett	278	.	.	.	.	5	178,450	1.8	64.19
	Total	5,774	25	887,580	4.3	153.72	281	4,092,514	4.9	70.88
County 9	Beaver Cty #9	5,400	46	674,746	8.5	124.95	357	3,252,783	6.6	60.24
	Ryley	500	5	11,927	10.0	23.85	18	54,083	3.6	10.82
	Toffield	1,542	2	104,438	1.3	67.73	33	435,258	2.1	28.23
	Viking	1,160	.	.	.	.	17	1,436,450	1.5	123.83
	Holden	411	3	168,862	7.3	410.86	7	191,946	1.7	46.70
	Total	9,013	56	959,973	6.2	106.51	432	5,370,520	4.8	59.60
County 10	Metaskiwin Cty #10	9,521	59	817,284	6.2	85.84	540	5,744,482	5.7	60.33
	Crystal Springs	37	.	.	.	.	2	21,677	5.4	58.59

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave.	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
County 10	Ha-Me-O Beach S.V.	85	.	.	.	.	18	678,726	21.2	798.50
	Millet	1,540	3	1,150	1.9	0.75	32	140,112	2.1	9.10
	Grandview S.V.	55	.	.	.	.	3	17,567	5.5	31.94
	Argentia Beach S.V.	3	.	.	.	.	3	348,079	100.0	11602.6
	Poplar Bay S.V.	43	.	.	.	.	2	23,200	4.7	53.95
	Total	11,284	62	818,434	5.5	72.53	600	6,973,843	5.3	61.80
County 11	Barrhead Cty #11	5,728	20	232,336	3.5	40.56	242	9,445,952	4.2	164.91
	Barrhead	4,014	6	27,078	1.5	6.75	77	751,201	1.9	18.71
	Total	9,742	26	259,414	2.7	26.62	319	10,197,153	3.3	104.67
County 12	Athabasca Cty #12	5,979	29	182,660	4.9	30.55	303	3,410,084	5.1	57.03
	Athabasca	1,975	1	800	0.5	0.41	52	2,797,480	2.6	141.64
	Boyle	704	5	38,840	7.1	55.17	23	109,165	3.3	15.51
	Mewatha Beach S.V.	28	.	.	.	.	1	1	3.6	0.00
	Island Lake South S.V.	63	.	.	.	.	1	83,000	1.6	131.75
	Island Lake S.V.	126	3	29,843	23.8	236.85	3	29,843	2.4	23.68
	South Baptiste S.V.	68	5	149,001	73.5	2191.19	5	149,001	7.4	219.12
	Total	8,943	43	401,144	4.8	44.86	388	6,578,574	4.3	73.56
County 13	Smoky Lake Cty #13	2,789	11	117,694	3.9	42.20	224	2,398,718	8.0	86.01
	Smoky Lake	1,045	1	4,000	1.0	3.83	27	446,053	2.6	42.68
	Vilna	325	1	823	3.1	2.53	10	96,381	3.1	29.66
	Warspite	97	.	.	.	.	2	14,242	2.1	14.68
	Waskatenau	276	1	7,222	3.6	26.17	2	9,110	0.7	3.30
	Total	4,532	14	129,739	3.1	28.63	265	2,964,504	5.8	65.41
County 14	Lacombe Cty #14	8,911	57	439,114	6.4	49.28	761	8,295,784	8.5	93.10
	Lacombe	6,258	11	60,473	1.8	9.66	168	2,325,860	2.7	37.17
	Alix	793	.	.	.	.	15	154,426	1.9	19.47

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave.	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
County 14	Bentley	841	1	8,000	1.2	9.51	25	78,581	3.0	9.34
	Blackfalds	1,768	5	46,072	2.8	26.06	42	142,586	2.4	8.06
	Clive	356	1	25,813	2.8	72.51	8	31,384	2.2	8.82
	Eckville	869	2	751	2.3	0.86	38	413,750	4.4	47.61
	Gull Lake S.V.	102	.	.	.	.	11	197,334	10.8	193.46
	Mirror	508	4	51,569	7.9	101.51	12	167,515	2.4	32.98
	Total	20,405	81	631,792	4.0	30.96	1080	11,807,220	5.3	57.86
County 16	Wheatland Cty #16	5,409	26	1,249,559	4.8	231.01	453	6,343,753	8.4	117.28
	Strathmore	3,564	2	1,180	0.6	0.33	95	2,654,885	2.7	74.49
	Gleichen	327	.	.	.	.	9	84,008	2.8	25.69
	Cluny	94	.	.	.	.	5	14	5.3	0.01
	Hussar	151	.	.	.	.	11	1,965,845	7.3	1301.88
	Rockyford	293	1	2,000	3.4	6.83	9	42,236	3.1	14.42
	Standard	336	.	.	.	.	12	97,343	3.6	28.97
	Total	10,174	29	1,252,748	2.9	123.13	594	11,188,084	5.8	110.00
County 17	Mountain View Cty #17	8,886	75	3,245,597	8.4	365.25	715	21,725,177	8.0	244.49
	Didsbury	3,197	5	77,552	1.6	24.26	97	678,116	3.0	21.21
	Olde	5,004	9	35,567	1.8	7.11	134	1,658,328	2.7	33.14
	Sundre	1,789	8	14,299	4.5	7.99	66	1,090,866	3.7	60.98
	Carstairs	1,537	.	.	.	.	41	567,547	2.7	36.93
	Cremona	354	1	221	2.8	0.62	17	129,841	4.8	36.68
	Total	20,767	98	3,375,236	4.7	162.43	1070	25,849,875	5.2	124.48
County 18	Paintearth Cty #18	2,439	6	144,652	2.5	59.31	165	2,195,672	6.8	90.02
	Castor	1,030	3	3,649	2.9	3.54	20	339,570	1.9	32.97
	Coronation	1,310	3	50,883	2.3	38.84	48	2,162,005	3.7	165.04
	Helkirk	155	9	18,001	58.1	116.14	18	132,880	11.6	85.73
	Total	4,934	21	217,185	4.3	44.02	251	4,830,127	5.1	97.90
County 19	St. Paul Cty #19	6,595	35	427,862	5.3	64.88	482	5,106,019	7.3	77.42
	St. Paul	5,128	11	170,290	2.1	33.21	135	3,396,708	2.6	66.24

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave.	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
County 19	Elk Point	1,391	3	4,327	2.2	3.11	35	269,797	2.5	19.40
	Total	13,478	49	602,479	3.6	44.70	652	8,772,524	4.8	65.10
County 20	Strathcona Cty #20	19,336	132	906,933	6.8	46.90	1471	20,789,539	7.6	107.51
	Sherwood Park	32,408	83	291,102	2.6	9.0	613	2,578,256	1.9	8.0
	Total	51,744	215	1,198,035	2.6	17.53	2084	23,367,795	2.8	40.18
County 21	Two Hills Cty #21	3,086	22	298,458	7.1	96.71	249	1,406,341	8.1	45.57
	Two Hills	1,171	1	3,000	0.9	2.56	24	101,875	2.0	8.70
	Derwent	149	.	.	.	.	4	15,319	2.7	10.28
	Myrnam	383	.	.	.	.	7	4,379	1.8	1.14
	Willingdon	371	1	11,186	2.7	30.15	11	25,722	3.0	6.93
	Hairy Hill	75	.	.	.	.	5	1,046,482	6.7	1395.31
	Total	5,235	24	312,644	4.6	59.72	300	2,600,118	5.7	49.67
County 22	Camrose Cty #22	7,475	57	392,502	7.6	52.51	518	4,937,281	6.9	66.05
	Bashaw	829	1	6,234	1.2	7.52	26	107,110	3.1	12.92
	Bawlf	375	1	31,000	2.7	82.67	10	1,633,184	2.7	435.52
	Bittern Lake	158	.	.	.	.	1	695	0.6	0.44
	Edberg	129	.	.	.	.	3	72,992	2.3	56.58
	Ferintosh	125	.	.	.	.	2	4,750	1.6	3.80
	Hay Lakes	312	1	76,000	3.2	243.59	10	274,835	3.2	88.09
	New Norway	273	2	1,510	7.3	5.53	13	38,969	4.8	14.27
	Rosalind	214	.	.	.	.	8	74,917	3.7	35.01
	Total	9,890	62	507,246	6.3	51.29	591	7,144,733	6.0	72.24
County 23	Red Deer Cty #23	13,911	76	736,015	5.5	52.91	940	12,028,331	6.8	86.47
	Innisfail	5,649	7	64,715	1.2	11.46	130	1,837,783	2.3	32.53
	Sylvan Lake	3,937	3	6,178	0.8	1.57	109	717,488	2.8	18.22
	Bowden	967	3	2,050	3.1	2.12	28	354,096	2.9	36.62
	Delburne	577	1	30,000	1.7	51.99	13	175,582	2.3	30.43
	Elnora	266	.	.	.	.	5	12,732	1.9	4.79
	Penhold	1,495	3	18,242	2.0	12.20	50	999,752	3.3	66.87

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
County 23	Norglesold S.V.	168	.	.	.	.	2	136,500	1.2	81.25
	Total	26,970	93	857,200	3.4	31.78	1277	16,262,264	4.7	60.30
County 24	Vermilion Riv. Cty #24	8,112	68	720,806	8.4	88.86	578	7,264,953	7.1	89.56
	Kitscoty	622	.	.	.	.	11	44,579	1.8	7.17
	Vermilion	4,379	7	28,654	1.6	6.54	123	1,870,097	2.8	42.71
	Dewberry	210	1	3,000	4.8	14.29	5	905,028	2.4	430.97
	Narwayne	516	.	.	.	.	17	43,396	3.3	8.41
	Paradise Valley	163	.	.	.	.	4	91,630	2.5	56.21
	Total	14,002	76	752,460	5.4	53.74	738	10,219,683	5.3	73.00
County 25	Leduc Cty #25	11,278	79	1,533,646	7.0	135.99	737	9,539,824	6.5	84.59
	Calmar	1,194	.	.	.	.	24	688,723	2.0	57.68
	Devon	3,956	7	67,229	1.8	16.99	66	488,214	1.7	12.34
	Breton	557	1	5,000	1.8	8.98	9	117,879	1.6	21.16
	New Sarepta	355	.	.	.	.	16	305,468	4.5	86.05
	Thorsby	632	.	.	.	.	9	23,191	1.4	3.67
	Warburg	477	2	25,950	4.2	54.40	7	56,611	1.5	11.87
	Itaska Beach S.V.	5	.	.	.	.	11	201,085	220.0	4021.70
	Golden Days S.V.	50	.	.	.	.	6	231,634	12.0	463.27
	Sundance Beach S.V.	11	.	.	.	.	1	10,651	9.1	96.83
	Beaumont	4,386	7	25,700	1.6	5.86	44	213,771	1.0	4.87
	Total	22,901	96	1,657,525	4.2	72.38	930	11,877,051	4.1	51.90
County 26	Lethbridge Cty #26	8,266	49	1,171,397	5.9	141.71	672	6,652,876	8.1	80.48
	Coaldale	5,059	14	239,931	2.8	47.43	110	678,593	2.2	13.41
	Picture Butte	1,554	6	154,489	3.9	99.41	28	311,476	1.8	20.04
	Barons	294	.	.	.	.	6	18,745	2.0	6.38
	Nobleford	531	.	.	.	.	16	78,937	3.0	14.87
	Coalhurst	1,289	9	10,563	7.0	8.19	47	305,885	3.6	23.73
	Total	16,993	78	1,576,380	4.6	92.77	879	8,046,512	5.2	47.35

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave.	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
County 27	Winburn Cty #27	3,894	18	196,254	4.6	50.40	247	3,207,213	6.3	82.36
	Winburn	135	.	.	.	.	5	123,520	3.7	91.50
	Wareville	778	.	.	.	.	22	211,361	2.8	27.17
	Vegreville	5,276	9	619,872	1.7	117.49	120	1,234,263	2.3	23.39
	Innisfree	219	2	5,380	9.1	24.57	5	17,033	2.3	7.78
	Lavoy	126	.	.	.	.	2	27,461	1.6	21.79
	Total	10,428	29	821,506	2.8	78.78	401	4,820,851	3.8	46.23
County 28	Lac Ste. Anne Cty #28	7,765	23	732,042	3.0	94.27	373	5,443,070	4.8	70.10
	Onoway	647	.	.	.	.	18	60,002	2.8	9.27
	Mayerthorpe	1,414	.	.	.	.	28	672,167	2.0	47.54
	Alberta Beach S.V.	425	2	26,196	4.7	61.64	37	422,815	8.7	99.49
	Sunset Point S.V.	102	.	.	.	.	1	7,383	1.0	7.24
	Sangudo	368	3	107,350	8.2	291.71	12	149,216	3.3	40.55
	Yellowstone S.V.	92	.	.	.	.	3	108,829	3.3	118.29
	Ross Haven S.V.	73	.	.	.	.	5	100,677	6.8	137.91
	Val Quentin S.V.	78	.	.	.	.	3	24,549	3.8	31.47
	Silver Sands S.V.	67	.	.	.	.	1	1	1.5	0.00
	Total	11,031	28	865,588	2.5	78.47	481	6,988,709	4.4	63.36
County 29	Flagstaff Cty #29	4,406	35	173,370	7.9	39.35	423	3,376,822	9.6	76.64
	Sedgewick	877	1	1,750	1.1	2.00	12	233,113	1.4	26.58
	Alliance	220	1	15,000	4.5	68.18	5	45,073	2.3	20.49
	Daysland	685	1	1,200	1.5	1.75	21	231,903	3.1	33.85
	Hardisty	642	1	1,084	1.6	1.69	36	201,536	5.6	31.44
	Forestburg	936	1	2,924	1.1	3.12	18	115,205	1.9	12.31
	Galahad	176	.	.	.	.	5	17,609	2.8	10.01
	Weisler	220	.	.	.	.	6	91,471	2.7	41.58
	Killam	1,032	.	.	.	.	14	399,472	1.4	38.71

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Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Capita \$ Loss
County 29	Lougheed	279	.	.	.	.	4	18,808	1.4	6.74
	Strome	267	.	.	.	.	12	319,040	4.5	119.49
	Total	9,740	40	195,328	4.1	20.05	556	5,050,352	5.7	51.85
County 30	Lamont Cty #30	4,287	41	356,680	9.6	83.20	338	2,642,235	7.9	61.63
	Lamont	1,536	3	4,490	2.0	2.92	27	224,679	1.8	14.63
	Chipman	239	1	22,000	4.2	92.05	9	167,064	3.8	69.90
	Mundare	606	.	.	.	.	22	136,259	3.6	22.48
	Andrew	485	.	.	.	.	19	683,348	3.9	140.90
	Bruderheim	1,176	2	90,763	1.7	77.18	28	249,509	2.4	21.22
	Total	8,329	47	473,933	5.6	56.90	443	4,103,094	5.3	49.26
County 31	Parkland Cty #31	20,926	93	1,656,000	4.4	79.14	1144	19,792,333	5.5	94.58
	Stony Plain	6,427	10	38,654	1.6	6.01	98	599,158	1.5	9.32
	Edmonton Beach S.V.	332	.	.	.	.	9	153,702	2.7	46.30
	Entwistle	478	4	16,354	8.4	34.21	17	179,986	3.6	37.65
	Kapasiwin S.V.	4	.	.	.	.	4	503	100.0	12.58
	Soba Beach	103	.	.	.	.	4	50,601	3.9	49.13
	Wabamun	603	2	16,600	3.3	27.53	16	94,829	2.7	15.73
	Total	28,873	109	1,727,608	3.8	59.83	1292	20,871,112	4.5	72.30
M.D. 1	Cypress M.D. #1	4,795	41	3,189,910	8.6	665.26	570	9,850,904	11.9	205.44
	Irvine	301	4	5,506,913	13.3	18295.4	15	5,609,388	5.0	1863.58
	Redcliff	3,834	17	135,445	4.4	35.3	140	1,229,452	3.7	32.07
	Total	8,930	62	8,832,268	6.9	989.06	725	16,689,744	8.1	186.90
M.D. 6	Cardston M.D. #6	4,419	24	126,887	5.4	28.71	281	3,376,370	6.4	76.41
	Cardston	3,497	5	18,578	1.4	5.37	105	3,004,810	3.0	85.93
	Magrath	1,637	1	10,000	0.6	6.11	68	539,506	4.2	32.96
	Glenwood	305	.	.	.	.	12	137,805	3.9	45.18
	Hillspring	251	.	.	.	.	8	31,559	3.2	12.57
	Total	10,109	30	155,465	3.0	15.38	474	7,090,050	4.7	70.14

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per Capita	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	\$ Loss
M.D. 8	Bighorn M.D. #8	1,138	8	42,511	7.0	37.36	75	1,686,493	6.6	148.20
	Ghost Lake S.V.	28	.	.	.	.	3	11,128	10.7	39.74
	Carmore	4,833	10	52,514	2.1	10.87	118	1,224,010	2.4	25.33
	Total	5,999	18	95,025	3.0	15.84	196	2,921,631	3.3	48.70
M.D. 9	Pincher Creek M.D. #9	3,093	14	374,793	4.5	121.17	205	2,964,546	6.6	95.85
	Pincher Creek	3,800	7	1,115,925	1.8	293.66	82	1,360,570	2.2	35.80
	Cowley	290	2	97,500	6.9	336.21	10	163,723	3.4	56.46
	Total	7,183	23	1,588,218	3.2	221.11	297	4,488,839	4.1	62.49
M.D. 14	Taber M.D. #14	5,284	33	806,842	6.2	152.70	488	5,879,236	9.2	111.26
	Taber	6,382	14	83,618	2.2	13.10	178	8,151,959	2.8	127.73
	Vauxhall	984	1	1,070	1.0	1.09	13	313,310	1.3	31.84
	Grassy Lake	244	.	.	.	.	25	1,569,013	10.2	643.04
	Bernwell	454	2	2,112	4.4	4.65	7	28,095	1.5	6.19
	Total	13,348	50	893,642	3.7	66.95	711	15,941,613	5.3	119.43
M.D. 26	Willow Creek M.D. #26	4,733	25	154,280	5.3	32.60	406	2,867,080	8.6	60.58
	Stevely	469	.	.	.	.	12	515,445	2.6	109.90
	Nanton	1,564	7	64,834	4.5	41.45	53	1,000,079	3.4	63.94
	Claresholm	3,382	17	1,032,520	5.0	305.30	121	2,606,053	3.6	77.06
	Ft. Macleod	3,123	1	141	0.3	0.05	72	564,568	2.3	18.08
	Granum	371	.	.	.	.	23	3,410,318	6.2	919.22
	Total	13,642	50	1,251,775	3.7	91.76	687	10,963,543	5.0	80.37
M.D. 31	Foothills M.D. #31	9,432	39	499,402	4.1	52.95	536	8,895,495	5.7	94.31
	High River	5,326	9	23,129	1.7	4.34	102	1,907,766	1.9	35.82
	Black Diamond	1,481	3	4,070	2.0	2.75	39	390,532	2.6	26.37
	Okotoks	6,020	11	19,903	1.8	3.31	76	708,523	1.3	11.77
	Blackie	266	1	140,528	3.8	528.30	4	204,630	1.5	76.93
	Turner Valley	1,317	4	9,678	3.0	7.35	34	491,515	2.6	37.32
	Longview	286	1	10,608	3.5	37.09	7	180,459	2.4	63.10
	Total	24,128	68	707,318	2.8	29.32	798	12,778,920	3.3	52.96

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave.	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
N.D. 34	Acadia N.D. #34	618	3	4,597	4.9	7.44	25	121,090	4.0	19.59
	Empress	229	.	.	.	.	7	321,827	3.1	140.54
	Total	847	3	4,597	3.5	5.4	32	442,917	3.8	52.29
N.D. 44	Rocky View N.D. #44	17,484	120	3,034,274	6.9	173.55	1634	20,106,437	9.3	115.00
	Beiseker	542	2	4,268	3.7	7.87	20	501,307	3.7	92.49
	Cochrane	4,337	4	33,117	0.9	7.64	141	1,765,555	3.3	40.71
	Crossfield	1,480	2	1,565	1.4	1.06	27	260,618	1.8	17.61
	Irricana	769	1	1,000	1.3	1.30	8	29,468	1.0	3.83
	Chestermere Lake S.V.	667	4	3,998	6.0	5.99	21	456,241	3.1	68.40
	Total	25,279	133	3,078,222	5.3	121.77	1851	23,119,626	7.3	91.46
N.D. 47	Starland N.D. #47	2,120	10	152,584	4.7	71.97	132	1,557,825	6.2	73.48
	Morrin	252	.	.	.	.	6	111,032	2.4	44.06
	Della	223	.	.	.	.	5	128,544	2.2	57.64
	Munson	152	.	.	.	.	2	3,370	1.3	2.22
	Rumsey	70	1	2,391	14.3	34.16	5	44,289	7.1	63.27
	Total	4,708	11	154,975	2.3	32.92	150	1,845,060	3.2	39.19
N.D. 48	Kneehill N.D. #48	4,996	22	503,486	4.4	100.78	330	4,668,614	6.6	93.45
	Three Hills	3,324	7	124,217	2.1	37.37	65	607,440	2.0	18.27
	Acme	457	.	.	.	.	9	38,874	2.0	8.51
	Trochu	892	.	.	.	.	24	328,269	2.7	36.80
	Carbon	429	.	.	.	.	6	7,991	1.4	1.86
	Linden	417	.	.	.	.	7	26,055	1.7	6.25
	Torrington	209	.	.	.	.	12	43,074	5.7	20.61
	Total	10,724	29	627,703	2.7	58.53	453	5,720,317	4.2	53.34
N.D. 52	Provost N.D. #52	2,725	22	662,045	8.1	242.95	271	3,733,883	9.9	137.02
	Provost	1,797	.	.	.	.	52	1,451,889	2.9	80.80
	Amiak	207	1	9,855	4.8	47.61	5	15,656	2.4	7.56
	Czar	190	3	56,623	15.8	298.02	9	112,691	4.7	59.31
	Hughenden	276	1	53,876	3.6	195.20	13	144,292	4.7	52.28
	Total	5,195	27	782,399	5.2	150.61	350	5,458,411	6.7	105.07

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per Capita \$ Loss	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
M.D. 61	Wainwright M.D. #61	3,937	48	315,854	12.2	80.23	346	4,343,389	8.8	110.32
	Wainwright	4,713	11	105,467	2.3	22.38	153	1,196,427	3.2	25.39
	Irma	484	-	-	-	-	9	191,324	1.9	39.53
	Chauvin	400	2	6,001	5.0	15.00	13	276,934	3.2	69.23
	Edgerton	399	-	-	-	-	21	284,237	5.3	71.24
	Total	9,933	61	427,322	6.1	43.02	542	6,292,311	5.5	63.35
M.D. 77	Brazeau M.D. #77	5,448	35	505,701	6.4	92.82	279	4,752,198	5.1	87.23
	Drayton Valley	5,474	16	167,457	2.9	30.59	180	1,128,487	3.3	20.62
	Total	10,922	51	673,158	4.7	61.63	459	5,880,685	4.2	53.84
M.D. 87	Bonnyville M.D. #87	10,384	26	124,494	2.5	11.99	453	4,319,788	4.4	41.60
	Bonnyville	5,575	18	1,016,895	3.2	182.40	176	4,463,102	3.2	80.06
	Cold Lake	3,572	12	255,368	3.4	71.49	94	1,088,929	2.6	30.49
	Grand Centre	3,715	9	386,682	2.4	104.09	126	2,972,648	3.4	80.02
	Bonnyville Be/Pelican N.	62	-	-	-	-	2	20,176	3.2	32.54
	Glendon	480	-	-	-	-	10	101,595	2.1	21.17
	Pelican Narrows S.V.	86	-	-	-	-	4	16,107	4.7	18.73
	Total	23,874	65	1,783,439	2.7	74.70	865	12,982,345	3.6	54.38
M.D. 90	Sturgeon M.D. #90	14,019	68	1,035,638	4.9	73.87	882	16,385,084	6.3	116.88
	Morinville	5,542	8	46,803	1.4	8.45	84	779,361	1.5	14.06
	Gibbons	2,491	8	9,102	3.2	3.65	43	425,630	1.7	17.09
	Sandy Beach S.V.	108	-	-	-	-	2	161,000	1.9	149.07
	Bon Accord	1,355	2	2,356	1.5	1.74	16	67,613	1.2	4.99
	Legal	949	3	124,708	3.2	131.41	24	301,733	2.5	31.79
	Redwater	2,024	1	1,000	0.5	0.49	35	692,477	1.7	34.21
	Total	26,488	90	1,219,607	3.4	46.04	1086	18,812,898	4.1	71.02
M.D. 92	Westlock M.D. #92	6,992	37	534,315	5.3	76.42	363	5,134,422	5.2	73.43
	Westlock	4,463	9	109,674	2.0	24.57	94	2,010,598	2.1	45.05
	Clyde	428	2	2,373	4.7	5.54	15	108,443	3.5	25.34
	Total	11,856	48	646,362	4.0	54.51	472	7,253,463	4.0	61.18

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave.	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
H.D. 99	Clearwater H.D. #99	9,848	23	511,053	2.3	51.89	433	6,418,209	4.4	65.17
	Rocky Mountain House	5,343	5	220,354	0.9	41.34	146	2,089,660	2.7	39.11
	Caroline	387	1	26,422	2.6	68.27	12	68,164	3.1	17.61
	Total	15,578	29	757,829	1.9	48.65	591	8,576,033	3.8	55.05
H.D. 130	Smoky River H.D. #130	2,853	37	584,050	13.0	204.71	253	4,192,485	8.9	146.95
	Falher	1,178	3	17,156	2.5	14.56	33	661,017	2.8	56.11
	Girouxville	367	2	2,718	5.4	7.41	13	76,123	3.5	20.74
	McLennan	1,045	2	34,000	1.9	32.54	33	1,599,963	3.2	153.11
	Bonnely	405	2	116,100	4.9	286.67	19	308,187	4.7	76.10
	Total	5,848	46	754,024	7.9	128.93	351	6,837,775	6.0	116.93
H.D. 133	Spirit River H.D. #133	848	18	206,276	21.2	243.25	155	1,758,103	18.3	207.32
	Spirit River	1,086	1	18,217	0.9	16.77	25	206,794	2.3	19.04
	Rycroft	672	2	876	3.0	1.30	19	137,503	2.8	20.46
	Total	2,606	21	225,369	8.1	86.48	199	2,102,400	7.6	80.68
H.D. 135	Peace River H.D. #135	1,527	14	363,410	9.2	237.99	175	1,900,960	11.5	124.49
	Berwyn	661	2	12,125	3.0	18.34	11	191,700	1.7	29.00
	Grimshaw	2,625	10	172,704	3.8	65.79	75	1,162,793	2.9	44.30
	Peace River	6,504	20	271,807	3.1	41.79	265	4,079,825	4.1	62.73
	Total	11,317	46	820,046	4.1	72.46	526	7,335,278	4.6	64.82
H.D. 136	Fairview H.D. #136	1,903	33	78,793	17.3	41.40	235	2,005,992	12.3	105.41
	Fairview	3,281	29	1,026,174	8.8	312.76	141	5,437,658	4.3	165.73
	Total	5,184	62	1,104,967	12.0	213.15	376	7,443,650	7.3	143.60
I.D. 4	I.D. #4	150	1	45,000	6.7	300.00	11	172,562	7.3	115.04
	Total	150	1	45,000	6.7	300.00	11	172,562	7.3	115.04
I.D. 5	I.D. #5	282	13	35,190	46.1	124.79	35	913,150	12.4	323.81
	Total	282	13	35,190	46.1	124.79	35	913,150	12.4	323.81
I.D. 6	I.D. #6	128	1	3,000	7.8	23.44	25	411,957	19.5	321.84
	Crownest Pass	6,912	7	315,378	1.0	45.63	215	3,057,946	3.1	44.24
	Total	7,040	8	318,378	1.1	45.22	240	3,469,903	3.4	49.28

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per Capita \$ Loss	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss
I.D. 7	I.D. #7	1,147	7	115,338	6.1	100.36	93	1,537,240	8.1	134.02
	Total	1,147	7	115,338	6.1	100.36	93	1,537,240	8.1	134.02
I.D. 8	I.D. #8	7	1	500	142.9	71.43	6	4,301	85.7	61.44
	Total	7	1	500	142.9	71.43	6	4,301	85.7	61.44
I.D. 9	I.D. #9	1,461	3	11,905	2.1	8.15	52	894,406	3.6	61.22
	Benff	6,924	7	36,104	1.0	5.21	99	5,351,047	1.4	77.28
	Total	8,385	10	48,009	1.2	5.73	151	6,245,453	1.8	74.48
I.D. 12	I.D. #12	10	2	25,340	200.0	2534.00	41	703,857	410.0	7038.57
	Jasper	4,465	1	20,000	0.2	4.48	74	769,050	1.7	17.22
	Total	4,475	3	45,340	0.7	10.13	115	1,472,907	2.6	32.91
I.D. 13	I.D. #13	29	.	.	.	.	4	76,875	13.8	265.09
	Total	29	.	.	.	.	4	76,875	13.8	265.09
I.D. 14	I.D. #14	8,192	65	1,633,625	7.9	199.42	619	35,837,826	7.6	437.47
	Wildwood	353	.	.	.	.	9	211,356	2.5	59.87
	Evansburg	750	1	15,000	1.3	20.00	22	227,172	2.9	30.29
	Edson	7,323	15	110,353	2.0	15.07	164	2,346,164	2.2	32.04
	Hinton	9,893	27	348,628	2.7	35.24	306	4,765,877	3.1	48.17
	Total	26,511	108	2,107,606	4.1	79.50	1120	43,388,395	4.2	163.67
I.D. 15	I.D. #15	2,854	21	498,376	7.4	174.62	210	4,099,389	7.4	143.64
	Whitecourt	6,560	31	337,988	4.7	51.52	216	1,818,107	3.3	27.72
	Ft. Assiniboine	214	2	23,370	9.3	109.21	7	135,135	3.3	63.15
	Total	9,628	54	859,734	5.6	89.29	433	6,052,631	4.5	62.86
I.D. 16	I.D. #16	5,332	40	1,276,428	7.5	239.39	500	15,059,202	9.4	282.43
	Valleyview	2,218	4	28,800	1.8	12.98	69	1,014,071	3.1	45.72
	Fox Creek	2,068	3	53,039	1.5	25.65	34	1,346,078	1.6	65.00
	Grande Cache	3,646	2	4,434	0.5	1.22	45	881,212	1.2	24.17
	Total	13,624	49	1,362,701	3.7	102.74	648	18,300,563	4.9	138.00
I.D. 17	I.D. #17	12,534	156	2,426,574	12.4	193.60	1190	25,953,826	9.5	203.88
	High Prairie	2,817	5	20,753	1.8	7.37	102	7,080,696	3.6	251.36
	Swan Hills	2,407	3	5,000	1.2	2.08	57	751,122	2.4	31.21
	Kinuso	282	1	24,710	3.5	87.62	13	109,385	4.6	38.79
	Slave Lake	5,611	13	21,547	2.3	3.84	142	2,396,934	2.5	42.72

(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	Capita \$ Loss
I.D. 17	Kempe	464	2	71,723	4.3	154.58	5	116,951	1.1	25.20
	Total	24,115	180	2,570,307	7.5	106.60	1509	36,008,914	6.3	149.32
I.D. 18	I.D. #18	10,498	77	2,397,951	7.3	228.42	889	178052588	8.5	1696.06
	Lac Le Biche	2,553	5	276,251	2.0	108.21	107	2,149,227	4.2	84.1
	Plemondon	236	5	35,696	21.2	151.25	12	258,448	5.1	109.51
	Total	13,287	87	2,709,898	6.5	203.95	1008	180460263	7.6	1358.17
I.D. 19	I.D. #19	1,620	14	991,147	8.6	611.82	144	3,330,473	8.9	205.58
	Varham	238	.	.	.	.	11	86,284	4.6	36.25
	Eagleham	172	1	3,241	5.8	18.84	5	28,255	2.9	16.43
	Total	2,030	15	994,388	7.4	489.85	160	3,445,012	7.9	169.71
I.D. 20	I.D. #20	2,922	26	621,857	8.9	212.82	154	2,560,987	5.3	87.65
	Total	2,922	26	621,857	8.9	212.82	154	2,560,987	5.3	87.65
I.D. 21	I.D. #21	2,992	36	234,665	12.0	78.43	243	3,143,010	8.1	105.05
	Hines Creek	513	3	122,133	5.8	238.08	31	1,146,175	6.0	223.43
	Total	3,505	39	356,798	11.1	101.80	274	4,289,185	7.8	122.37
I.D. 22	I.D. #22	4,451	34	752,662	7.6	169.05	398	6,831,118	8.9	153.47
	Manning	1,144	5	190,818	4.4	166.80	42	2,674,019	3.7	233.74
	Total	5,595	39	943,280	7.0	168.60	440	9,505,137	7.9	169.90
I.D. 23	I.D. #23	6,942	36	1,207,676	5.2	173.94	458	9,493,529	6.6	136.75
	High Level	3,004	15	1,048,630	5.0	349.08	129	5,164,142	4.3	171.91
	Rainbow Lake	1,146	4	66,900	3.5	58.38	21	1,593,467	1.8	139.05
	Total	11,092	55	2,323,006	5.0	209.43	608	16,231,138	5.5	146.51
I.D. 24	I.D. #24	282	.	.	.	.	8	5,296,013	2.8	1878.02
	Total	282	.	.	.	.	8	5,296,013	2.8	1878.02
Indian Reserves	Ind. Reserves	33,733	82	2,288,921	2.4	67.85	902	20,019,540	2.7	59.35
	Total	33,733	82	2,288,921	2.4	67.85	902	20,019,540	2.7	59.35
S.A. 2	S.A. #2	2,553	21	174,714	8.2	68.43	168	2,026,048	6.6	79.34
	Hanna	3,017	3	7,940	1.0	2.63	59	829,437	2.0	27.49
	Total	5,570	24	182,654	4.3	32.79	227	2,855,485	4.1	51.26
S.A. 3	S.A. #3	1,691	9	176,835	5.3	104.57	101	1,601,253	6.0	96.64
	Ceresi	251	.	.	.	.	2	62,139	0.8	24.76
	Oyen	1,035	1	4,754	1.0	4.59	28	141,202	2.7	13.64

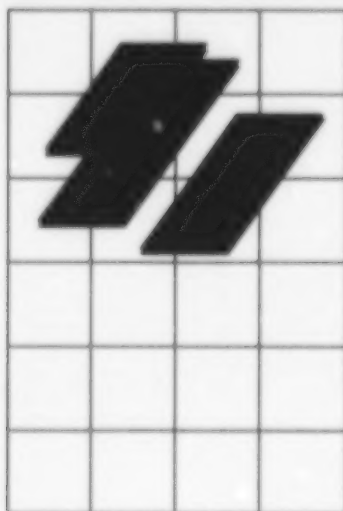
(CONTINUED)

Municipal Fire Loss Statistics

for the Year Ending December 31, 1989 (cont'd)

Municipality		Year Ending December 31, 1989					10 Year Total		10 Year Ave. Per Capita	
		Population	Fire Count	\$ Loss	Fire Rate	Per Capita \$ Loss	Fire Count	\$ Loss	Fire Rate	\$ Loss
S.A. 3	Youngstown	294	.	.	.	.	8	79,766	2.7	27.14
	Total	3,271	10	181,589	3.1	55.51	139	1,884,380	4.2	57.61
S.A. 4	S.A. #6	1,766	9	101,283	5.1	57.35	100	1,301,118	5.7	73.68
	Veteran	312	1	3,185	3.2	10.21	13	1,884,260	4.2	603.93
	Consort	686	3	8,804	4.4	12.83	18	703,781	2.6	102.59
	Total	2,764	13	113,272	4.7	40.98	131	3,889,159	4.7	140.71
Cities	Calgary	671,138	1868	13,061,256	2.8	19.46	25314	157,268,752	3.8	23.43
	Camrose	12,968	26	150,978	2.0	11.64	310	4,048,591	2.4	31.22
	Drumheller	6,366	16	155,006	2.5	24.35	183	3,907,006	2.9	61.37
	Edmonton	583,872	1671	12,448,438	2.9	21.32	16459	153,666,638	2.8	26.32
	Grande Prairie	27,208	111	672,471	4.1	24.72	1411	7,446,591	5.2	27.37
	Lethbridge	60,614	174	1,376,020	2.9	22.70	2528	12,875,754	4.2	21.24
	Lloydminster	10,201	12	138,184	1.2	13.55	272	3,047,311	2.7	29.87
	Medicine Hat	42,290	133	2,322,402	3.1	54.92	2113	18,241,635	5.0	43.13
	Red Deer	55,947	122	1,734,738	2.2	31.01	1845	11,904,129	3.3	21.28
	Wetaskiwin	10,103	21	257,427	2.1	25.48	214	6,898,193	2.1	68.28
	St. Albert	39,388	76	455,460	1.9	11.56	1065	6,681,316	2.7	16.96
	Ft. McMurray	33,698	133	1,237,575	3.9	36.73	1616	13,127,107	4.8	38.96
	Leduc	13,363	12	34,740	0.9	2.60	294	2,252,203	2.2	16.85
	Airdrie	11,424	24	325,679	2.1	28.51	180	1,556,815	1.6	13.63
	Ft. Saskatchewan	11,983	26	490,695	2.2	40.95	253	12,543,639	2.1	104.68
	Spruce Grove	12,332	33	498,651	2.7	40.44	366	3,110,861	3.0	25.23
	Total	1,602,895	4458	35,359,720	2.8	22.08	54423	418,576,541	3.4	26.11

SECTION 3



Glossary

Fire Commissioner's
Statistical Report

1 9 8 9

Glossary

Act or Omission

The human element by which someone has done something (an act) or failed to do something (an omission). The act or omission indicates whether the fire was deliberate, neglectful or accidental.

Incendary or Set Fires - Includes arson, suspected incendiarism, riot, mischief or vandalism.

Misuse of Source of Ignition - Includes disposal of smoker's material, thawing, inadequate control of an open fire, children playing with source of ignition, welding or cutting too close to combustible material or torch too close to combustible material.

Misuse of Material Ignited - Includes fuel spilled accidentally, improper fuelling, technique, cleaning or washing parts, improper container, overheated cooking oil, combustible placed too close to heat, and improper storage.

Mechanical and Electrical Failure or Malfunction - Includes part failure, automatic or manual control failure, electrical short circuit and part worn out.

Construction, Design or Installation Deficiency - Includes construction or design deficiency, installation too close to a combustible, other installation deficiency or overfusing.

Misuse of Equipment - overfuelling, includes any misuse of equipment or tools.

Human Failing - includes person asleep, temporary loss of judgement, physical disability, panic, influence of alcohol or drugs and ignorance of hazard.

Area of Origin

The area of a building or vehicle where the fire started.

Means of Egress - the area allowing an individual transit or a way of going out. Includes hallway, stairway, escalator, lobby and elevator.

Assembly, Sales Area - areas where groups of people gather. Includes theatre, arena, lounge, living room, sales or show room, library, museum and

sports facility.

Function Area - the area where a mode of action or activity is undertaken. Includes sleeping area, dining area, bar, washroom, office, laboratory, printing and photographic reproduction area, kitchen, laundry room, operating room, performance area and manufacturing area.

Storage Area - the area inside a building where items are stored. Includes product storage area, closet, equipment area, records storage area, shipping and receiving area, trash and rubbish area, vehicle garage and agricultural product storage area.

Service Facilities - conveyance items such as dumbwaiters, service shafts, laundry and garbage chutes, heating and cooking ducts and chimneys or gas vents.

Structural Area - includes crawl space, balcony, ceiling and floor assembly, wall assembly, exterior wall or exterior roof and awning or canopy.

Vehicle Area - Includes engine area, fuel area, control area, passenger area and cargo area.

Outside Area - includes open area such as lawn, field or park, court, patio, parking area, outdoor storage area and trash or rubbish area.

Death

A person killed accidentally as a direct result of a fire or a person who dies from a fire injury within one year following the date on which the injury was sustained.

Fire Death - refers to a person who died as a direct result of a fire, either by smoke inhalation or burns.

Death Involving Fire - refers to a person who was in a place where fire occurred, but who may have died from a cause other than the fire itself (eg. a person who dies in an automobile accident where the vehicle catches fire prior to death, a suicide by burning or asphyxia, an incendary fire set for the specific reason of killing).

Fuel or Energy

Is the fuel associated with the source of ignition. Includes coal, wood, fuel oil, gasoline, natural gas or other fuel gases, smoker's material, electricity, lightning or exposures.

Ignition Scenario

The combination of three components - the source of ignition, material first ignited and act or omission - in the chain of events that lead to a fire.

A small number of ignition scenarios recur in the ignition of fires that account for the majority of fire incidents. Identification of these helps locate problems more specifically for the design of appropriate prevention strategies.

Injuries

A person accidentally injured as a direct result of a fire (a member of the fire department accidentally injured while in the process of fighting a fire or injured as a result of an accident while en route to or returning from the scene of an actual fire is considered a fire action injury).

Minor Injury - an injury that does not require hospitalization of over a 24-hour period or absence from work of not more than one full day.

Light Injury - an injury that required admission to a hospital of over 24 to 48 hours and/or absence from work for a period of two to fifteen days.

Serious Injury - an injury that required admission to a hospital for a period of more than 48 hours and/or an absence from work for a period exceeding fifteen days.

Material First Ignited

The actual material that ignites and creates the fire condition.

Structural Components, Finish Materials - includes roof covering, wall covering, floor covering, structural component, ceiling covering and insulation.

Furniture, Furnishings - includes furniture, ironing board, mattress, bedding, drapery and broom, mop or brush.

Clothing, Textiles - includes clothing, fabric, fur and tarpaulin.

Wood, Paper Products - includes wood, wood shavings, paper, cardboard and paper stock.

Flammable Liquids - includes gasoline, fuel oil, flammable liquids, paint, varnish, tar, asphalt, polish and wax.

Flammable Gases - includes natural gas, propane, anaesthetic gas, acetylene and hydrogen.

Chemicals - includes starch, flour, cellulose nitrate, plastic, oxidizing material, magnesium and alloys, titanium, natural or synthetic rubber and ammonium nitrate.

Agricultural, Forestry Products - includes fibres, grains, hay, trees, felled timber, grass, fertilizer and manure.

Miscellaneous - includes coal, garbage, trash, oily rags and artificial trees.

Property Classification

The principal use or occupancy of the building.

Assembly - property for the gathering of persons for civic, political, travel, religious, social, educational or recreational purposes. Includes theatres, amusement or recreation places, schools, colleges, universities, churches, social or sport clubs, libraries and museums, eating establishments and passenger terminals.

Institutional - property for medical treatment, or care of persons suffering from illness, disease or infirmity, for the care of infants, convalescents or aged persons and for penal or corrective purposes. Includes prisons, jails, reformatories, homes for the aged, children's hospitals, hospitals and clinics.

Residential - property in which sleeping accommodation is provided for normal residential purposes. Includes one and two family dwellings, apartments, rooming or boarding houses, hotels, motels, dormitories and mobile homes.

Business and Personal Service - property for conducting business. Includes offices, personal services such as hairdressing and data processing or storage facilities.

Mercantile - property used for the display and sale of merchandise. Includes food and beverage sales, textile and clothing sales, furniture and appliance sales, books and specialty sales, recreational and hobby supply sales, repair shops, laundries, vehicle and boat sales and department or variety stores.

Industrial Manufacturing Properties - property where raw materials are transformed into new products and where the component parts of manufactured products are assembled. Includes chemical, petroleum, paint and plastic manufacturing; wood, furniture, and paper manufacturing; metal product and electrical equipment manufacturing; food processing; beverage, tobacco, soap and margarine manufacturing; textile manufacturing; footwear and wearing apparel manufacturing; and vehicle and related equipment manufacturing.

Storage Properties - property used primarily for the storage or sheltering of goods, merchandise, products, vehicles, or animals. Includes agricultural product storage; textile, fibre and clothing storage; processed food and beverage storage; flammable liquids, gas and petroleum products storage; wood, furniture, and paper products storage; chemical, paint and plastic storage; metal products, machinery, and electrical appliance storage and vehicle storage.

Special Property - **Transportation Equipment** - mainly outdoor property and transport equipment. Includes outdoor property, piers, buildings under construction or demolition, watercraft, rail transport vehicles, ground transport vehicles, aircraft and other special equipment.

Miscellaneous - includes laboratories, farm facilities, outbuildings, utilities, glass and pottery manufacturing, mining, communications and nucleonics.

Source of Ignition

The actual equipment, device or object which brings about ignition.

Cooking Equipment - Includes stove, range, food warming appliance, deep fat fryer, broiler and portable cooking unit.

Heating Equipment - Includes central heating unit, service water heater, space heater, fireplace, chimney, flue pipe and steam or hot water pipe.

Appliances and Equipment - Includes dryer, air conditioning equipment, pressing iron and incinerator.

Smoker's Material and "Open" Flames - cigarettes, pipes, cigars and/or matches, lighters when used in conjunction with smoking. Includes matches and lighters

not associated with smoker's material, candles, cutting torches, welding equipment and hot ashes.

Exposure - includes exposure from an attached or detached structure, lumber yard, open fire, forest, grass and brush.

Miscellaneous - Includes internal combustion engine, heat treatment equipment, industrial oven, tar pot, fireworks, conveyors, commercial and industrial machinery and chemical reactions.

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